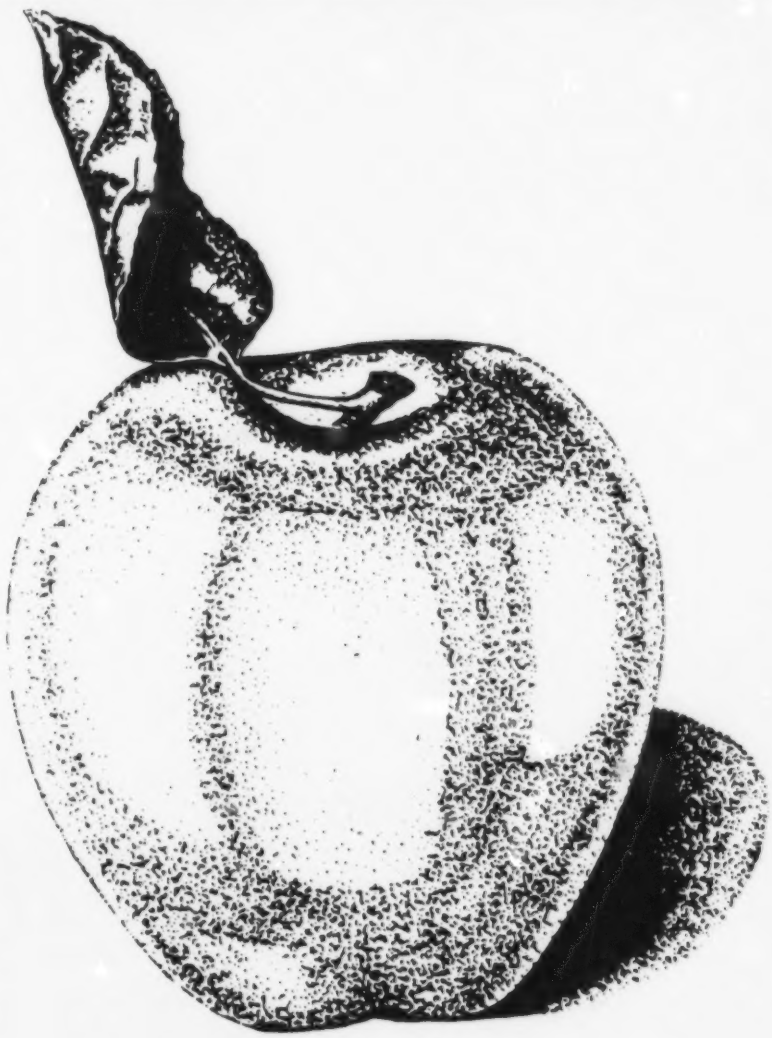
1990 FRUIT TREE CENSUS

PART III

APPLES



Ministry of
Agriculture
and Food
ONTARIO

1990 ONTARIO FRUIT TREE CENSUS

APPLES

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1990 ONTARIO FRUIT TREE CENSUS

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FOREWORD

The Fruit Tree and Grape Census is conducted in Ontario every five years through the joint efforts of the Ontario Ministry of Agriculture and Food (OMAF), the Ontario Apple Marketing Commission and the Ontario Tender Fruit Producers' and Grape Growers' Marketing Boards. Data for the Census are collected from all commercial growers by mail questionnaire. Every effort is made by those involved to make this report as complete as possible.

The results of the 1990 Census are being published in three parts and effort has been made to include as much informative and timely material as possible for the various crops. This publication presents the number of apple trees reported in the Census, whereas another publication deals with grapes and a third with tender fruit. We trust that growers will find this report of value in deciding future plantings and also that industry personnel responsible for making crop forecasts will find this an up-to-date base for predictions.

The 1990 Apple Census was collected through the horticulture crop advisors of the Plant Industry Branch of OMAF. The horticulture statistician of the Policy Analysis Branch was responsible for the mail out and tabulation of Census schedules and preparation of statistical tables.

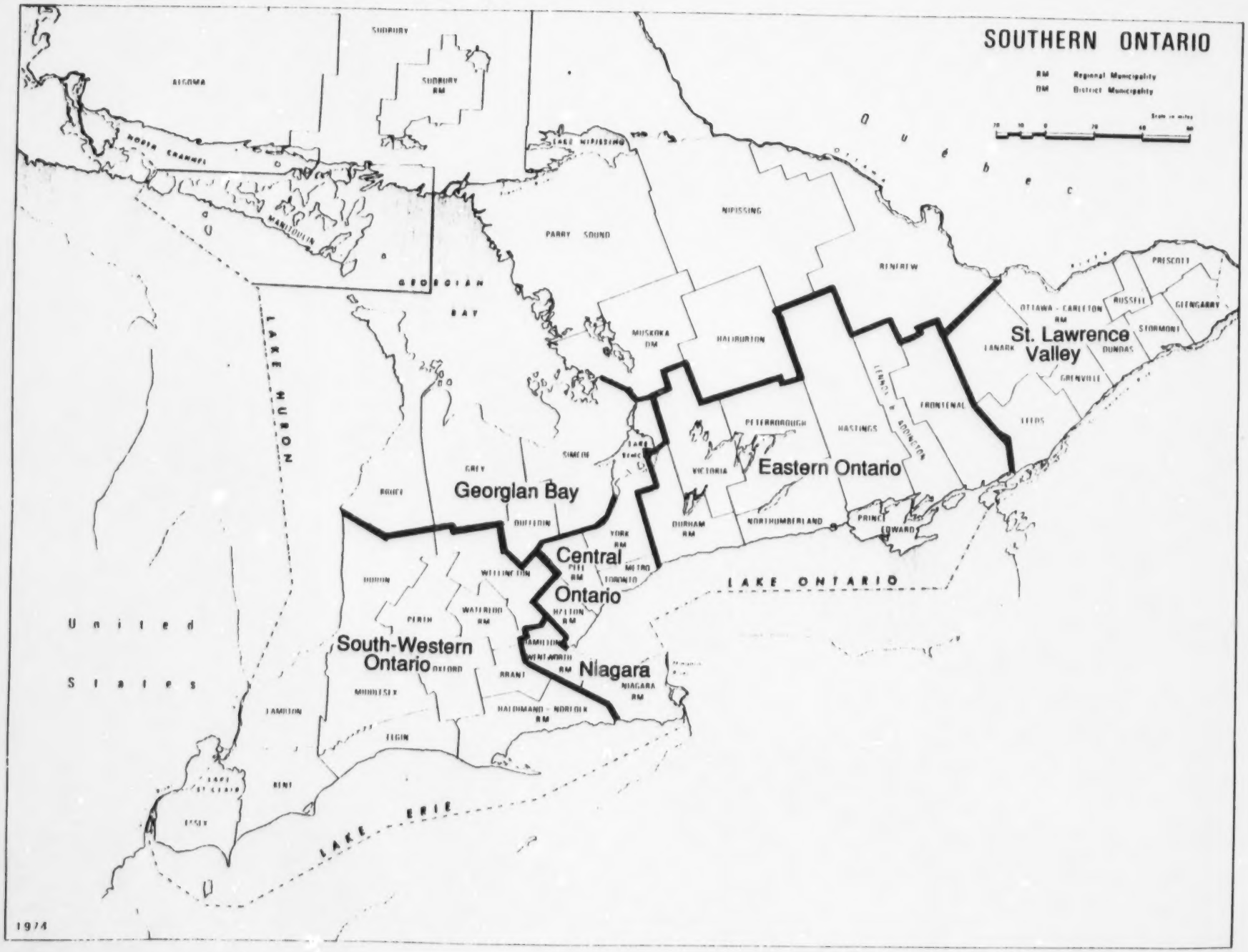
In this report, reference is made to the Census years 1971 through 1986. Wherever possible, the format established in 1971 and continued in later years is followed again in 1990 to facilitate direct comparisons. The data are grouped by standard and size-controlling rootstocks. Cultivars (varieties) are presented in alphabetical order within the groupings of early and late maturity. Prior to the 1966 Census, they were shown in order of maturity only. Although the sequencing of cultivars has changed, the tables still remain comparable to other Census years. The cultivar Quinte is no longer tabulated separately as only a minimal amount is being produced. The rootstock MM104 is no longer used in sufficient quantities to warrant separate tabulation.

For purposes of this Census, the province of Ontario is divided into the following six districts:

ST. LAWRENCE VALLEY - Counties of Prescott, Glengarry, Russell, Stormont, Dundas, Grenville, Lanark, Leeds, and the regional municipality of Ottawa-Carleton.
EASTERN ONTARIO - Counties of Frontenac, Lennox and Addington, Hastings, Prince Edward, Peterborough, Northumberland, Victoria and the regional municipality of Durham.
GEORGIAN BAY - Counties of Simcoe, Dufferin, Grey and Bruce.
CENTRAL ONTARIO - Regional municipalities of York, Peel and Halton.
NIAGARA - Regional municipalities of Niagara and Hamilton-Wentworth.
SOUTH-WESTERN ONTARIO - Counties of Wellington, Perth, Huron, Brant, Oxford, Middlesex, Elgin, Lambton, Kent, Essex and the regional municipalities of Haldimand-Norfolk and Waterloo.

Note that in this publication, the district of Niagara is the summation of the regional municipalities of Niagara and Hamilton-Wentworth, whereas in 1986 it consisted of the regional municipalities of Niagara, Hamilton-Wentworth (south of Highway 99), and old Haldimand county.

Appreciation is expressed to the growers who took the time to accurately complete and return the Census questionnaire and to the horticulture crop advisors for their effort and cooperation. This Census can only be as complete and accurate as the cooperation received from growers.


SOUTHERN ONTARIO
RM Regional Municipality
DM District Municipality
Scale in miles
SUDBURY
SUDBURY RM
ALGOMA
NORTH SHORE
MANITOULIN
GEORGIAN BAY
LAKE HURON
PARRY SOUND
NIPISSING
RENFREW
MUSKOKA DM
HALIBURTON
PRESCOTT
RUSSELL
GLENGARRY
OTTAWA - CARLETON RM
STORMONT
LANARK
DUNDAS
GRENVILLE
St. Lawrence Valley
FRONTENAC
LENNOX & ADDINGTON
LEEDS
PETERBOROUGH
HASTINGS
VICTORIA
Eastern Ontario
GREY
SIMCOE
BRUCE
Georgian Bay
DUFFERIN
YORK RM
DURHAM RM
NORTHUMBERLAND
PRINCE EDWARD
PEEL RM
METRO TORONTO
Central Ontario
WELLINGTON
HALTON RM
LAKE ONTARIO
HURON
PERTH
WATERLOO RM
United States
South-Western Ontario
OXFORD
BRANT
HAMILTON-WENTWORTH RM
Niagara
NIAGARA RM
MIDDLESEX
HALDIMAND - NORFOLK RM
LAMBTON
ELGIN
ESSEX
KENT
LAKE ST. CLAIR
LAKE ERIE
1974

CENSUS TECHNIQUES AND DEFINITION OF TERMS

Census Techniques

Grower List — The grower list originated from the 1986 Census of Agriculture with supplemental updates by Statistics Canada through various annual surveys. Grower listings from the Ontario Apple Marketing Commission and the Ontario Tender Fruit Growers' and Grape Growers' Marketing Boards were used to verify and further ensure completeness. Also, newsletters from the Commission and Boards were used to request those who did not receive a Census form to obtain one from their local OMAF office.

Response Rate — A total of 2,273 growers responded to the Census. Some non-response was encountered and as no other accurate information is available about these orchards, they were not included in the tabulation of the Census results. This should be kept under consideration when using the data.

Data Collected — Each Census form represented one grower of apples, whether with one or several orchards. For each apple cultivar, the actual number of trees by age grouping and the area this represents were requested.

Definition of Terms

Farm (Grower) — A grower is defined as the operator of an orchard (whether owned or leased) who markets the fruit produced. Each grower responding is considered to be operating a farm.

District — A district is the grouping of counties according to geographical location. Within each grouping, the counties are deemed to be as similar as possible (ie. soil condition, climate, etc.). As in the case of South-Western Ontario, a large number of counties were used to ensure that no single grower is identifiable from the results. It is known that some growers may reside in a district different from where their orchard(s) are located. This is considered negligible considering the district sizes and regional locations.

Age Groupings — Set such that the number of trees that are non-producing (too young), high producers (in their prime), or liable to be replaced or removed by the next Census are identifiable.

Density of Planting — Groupings of densities were selected as to represent the average planting styles used within the province and to reflect the changes therein. In the cases of tree numbers given without their corresponding acreage, imputation was done.

Cultivated and Bearing Acreage — Cultivated acreage represents the total area of planted trees and bearing acreage represents the total area of trees planted from which fruit was produced.

Marketed Production — Total marketed production is the estimated total sales of produce to fresh and processing markets and hence does not include that amount which was not harvested, became waste, or was left unsold.

Farm Value — The total amount paid to growers for produce sold is called the farm value. This refers to the actual transaction prices and will not include government subsidy payments, commissions, packaging charges or Board fees.

(Note: The term 'Cultivar' is used as being synonymous with 'Variety'.)

SECTION I - APPLE INDUSTRY SUMMARY

Production and Marketing

Bearing apple acreage has been steadily increasing since 1986, up almost 20 percent to 31,340 acres in 1990 from 26,198 acres in 1986 (Table 1). Combined bearing and non-bearing acreage has fluctuated over these years but the proportion of cultivated acreage which is bearing has increased, up from 81 percent in 1986 to 92 percent in 1990. Marketed production also fluctuates due to the effects of weather conditions year to year. 1990 and 1989 were bumper crop years, up to 215,247 tons in 1990. The five year average production for 1986 to 1990 was 192,635 tons, compared to 178,001 tons for 1982 to 1986 and 153,855 tons for 1977 to 1981. Total farm value for apples in 1990 was $63.6 million. During the five year period 1986 to 1990, farm value ranged from a low of $42.6 million in 1989 to a high of $63.6 million in 1990.

In 1990, 66 percent of the crop was utilized by the fresh market sector as compared to 44 percent in 1989 and 34 percent in 1988 (Table 2). These apples were channeled through retail outlets via packer (55%), direct to retailer (2%), farmer's market (4%), pick-your-own operations (1%), roadside stands (3%), and other channels (1%). Of the 34 percent sold for processing, 84 percent was used for juice and the remainder for sauce, frozen slices and pie filling. A total of 84 percent of the farm value in 1990 originated from fresh market sales. To many this was considered a 'vintage' year.

Table 1 - Estimated Area, Production and Farm Value, Ontario, 1986-1990

Year	Area		Marketed Production	Farm Value	
	Cultivated	Bearing		Unit	Total
	- acres -		tons	cents/lb	$'000
1986	32,286	26,198	173,680	14.3	49,518
1987	-	26,641	188,602	12.6	47,403
1988	30,390	27,190	173,765	13.8	48,013
1989	30,190	27,540	211,882	10.0	42,570
1990	34,040	31,340	215,247	14.8	63,588

- Figures not available

Table 2 - Distribution of Apple Production by Marketing Channel, Ontario, 1990

Marketing Channel	Marketed Production	Percent of Total	Transaction Price	Farm Value	Percent of Total
	tons	%	cents/lb	$'000	%
Packer	117,259	54.5	18.1	42,448	66.8
Retailer	5,204	2.4	26.2	2,732	4.3
Farmer's Market	7,712	3.6	22.3	3,444	5.4
Pick-Your-Own	2,789	1.3	26.0	1,449	2.3
Roadside Stand	6,694	3.1	18.5	2,471	3.9
Other	1,855	0.9	14.4	534	0.8
Total Fresh	141,513	65.8	18.8	53,078	83.5
Processing - Juice	61,844	28.7	5.9	7,335	11.5
Processing - Other	11,893	5.5	13.3	3,175	5.0
Total Processing	73,737	34.2	7.1	10,510	16.5
Total Production	215,250	100.0	14.8	63,588	100.0

International Trade of Fresh Market Apples

In 1990 a total of 22,755 tons of fresh apples were exported from Ontario to outside Canada. (No information is available on inter-provincial movement.) The five year average for the period 1986 to 1990 was 21,652 tons. This was an increase from the 1982 to 1986 five year average of 13,915 tons and the 1977 to 1981 five year average of 10,474 tons. The majority of exports in 1990 were to the U.S. (89%) and the U.K. (9%).

Comparatively, a total of 62,365 tons of fresh apples were imported into Ontario from outside Canada during 1990. Though there has been substantial growth in exports, it is far exceeded by the growth of imports. The five year average for the period 1986 to 1990 was 57,518 tons, up from the 1982 to 1986 average of 38,031 tons and the 1977 to 1981 average of 33,952 tons. The majority of these imports are from the U.S. (87%), Chile (7%) and New Zealand (5%).

The Ontario Apple Marketing Commission represents the entire apple industry in the province. The Commission monitors the industry and establishes prices for Ontario fresh apples to wholesale and retail buyers. The Commission actively promotes Ontario apples, both in the domestic and export markets, and receives financial assistance for its promotional program from the Ontario Ministry of Agriculture and Food (Ontario Foodland Program). These activities have become more and more important as the Ontario and world production levels increase.

Industry Profile - Farms, Trees and Rootstocks

There were a total of 1,780 farms in Ontario reporting apple trees in 1990, an increase of 16 percent from 1,501 farms in 1986 (Table 3). There were 920 (52%) reporting having at least one apple tree on standard rootstock while 1,502 (84%) reported at least one on size-controlling rootstock. In careful examination of reporting farms, it was found that 30 percent have over 1,500 apple trees in their orchard(s) and, in total, account for over 90 percent of all trees in the province.

In 1990 there were a total of 3,969,915 apple trees, up 9 percent from 3,638,345 trees reported in 1986 (Table 4). Non-bearing tree numbers decreased from 1,391,504 in 1986 to 1,261,871 in 1990, accounting for 32 percent in 1990 and 38 percent in 1986 of total trees. Production can be expected to continue to increase as these non-bearing trees come into production.

There were 236,348 trees (6%) on standard rootstock, a 23 percent decrease from 308,322 trees in 1986. The number on size-controlling rootstock has increased to 3,733,567 trees (94%), up 12 percent from 3,330,023 trees in 1986. Of the trees on size-controlling rootstock, the majority are on M26 (41%) and MM106 (27%) (Table 5).

Table 3 - Number of Farms Reporting Apple Trees by Rootstock, Ontario, 1971-1990

Rootstock	1971	1976	1981	1986	1990
Standard	1,952	1,372	1,200	785	920
Size-Controlling ...	744	816	1,117	1,313	1,502
Total	-	-	1,387*	1,501	1,780

- Figures not available * Estimate

Table 4 - Number of Apple Trees by Rootstock, Ontario, 1971-1990

Rootstock	1971	1976	1981	1986	1990
Standard	726,184	605,490	531,044	308,322	236,348
Size-Controlling ...	754,260	1,254,216	2,220,350	3,330,023	3,733,567
Total	1,480,444	1,859,706	2,751,394	3,638,345	3,969,915

Table 5 - Number and Percent of Apple Trees on Size-Controlling Rootstocks, Ontario, 1971-1990

Root-Stock	Number of Trees					Percent of Total Trees				
	1971	1976	1981	1986	1990	1971	1976	1981	1986	1990
M2	66,046	64,542	66,198	99,725	51,896	8.8	5.2	3.0	3.0	1.4
M7	199,355	265,487	347,892	419,989	438,996	26.4	21.2	15.7	12.6	11.8
M9	146,282	142,180	198,130	227,768	415,704	19.4	11.3	8.9	6.9	11.1
M26	35,371	297,425	869,231	1,258,788	1,534,927	4.7	23.7	39.1	37.8	41.1
MM106 ..	136,329	298,577	545,191	1,043,316	1,017,503	18.1	23.8	24.6	31.3	27.2
MM111 ..	33,267	41,319	97,988	186,288	178,862	4.4	3.3	4.4	5.6	4.8
Other	137,610	144,686	95,720	94,149	95,679	18.2	11.5	4.3	2.8	2.6
Total	754,260	1,254,216	2,220,350	3,330,023	3,733,567	100.0	100.0	100.0	100.0	100.0

APPLES ON STANDARD ROOTSTOCK

Farm Size and Regional Distribution

In 1990 there were 920 farms reporting at least one apple tree on standard rootstock, an increase from 785 farms in 1986 (Table 6). The number of farms with more than 600 trees decreased by 16 percent, from 124 in 1986 to 100 in 1990. There was a 86 percent increase in the number of farms with 30 or less trees, from 225 in 1986 to 418 in 1990. The majority of farms with apples on standard rootstock are in South-Western Ontario (38%) and the Niagara District (25%).

Tree Distribution, Cultivars and Age

In 1990 there were a total of 236,348 apple trees on standard rootstock, down 23 percent from 308,332 trees in 1986 (Table 7). The number of trees has been declining since this Census reported 846,311 trees in 1956. The majority of these trees are in the Georgian Bay District (43%) and in South-Western Ontario (25%) (Table 8).

The most abundant cultivars in 1990 were McIntosh (45%), Northern Spy (26%) and Red Delicious (13%) (Table 9). The largest percentage change in tree numbers since 1986 were for the cultivars Vista Bella (791%), R.I. Greening (-77%) and Paulared (-67%).

Over half (56%) of the apple trees on standard rootstock were 31 years of age or older and 33 percent were between 17 and 30 years of age (Table 9). Specifically, the cultivar Northern Spy had 69 percent over 30 years of age, Cortland 65 percent and McIntosh 62 percent.

Regional Analysis

The number of apple trees on standard rootstock in the St. Lawrence Valley District has decreased by 55 percent, from 9,010 in 1986 to 4,076 in 1990 (Table 10). Seventy-four percent were over 30 years of age. The major cultivars grown were McIntosh (64%) and Cortland (11%). From 1986 to 1990, the number of trees of the cultivar McIntosh decreased 56 percent from 5,968 to 2,625, and that for Cortland decreased 51 percent from 951to 465.

There were a total of 29,508 apple trees on standard rootstock in Eastern Ontario, a 48 percent decrease from 56,820 trees reported in 1986 (Table 11). Fifty-seven percent were over 30 years of age. The major cultivars grown were McIntosh (61%), Northern Spy (14%) and Red Delicious (9%). From 1986 to 1990, the number of trees of the cultivar McIntosh decreased 48 percent from 34,603 to 18,046, Northern Spy decreased 58 percent from 9,614 to 4,053 and Red Delicious decreased 48 percent from 5,117 to 2,685.

In the Georgian Bay District, there was a total of 101,256 apple trees on standard rootstock, a decrease of less than 1 percent from 101,571 trees in 1986 (Table 12). Fifty-eight percent were over 30 years of age. The major cultivars grown were McIntosh (51%), Northern Spy (31%) and Red Delicious (8%). From 1986 to 1990, the number of trees of the cultivar McIntosh decreased 2 percent from 52,548 to 51,741, Northern Spy increased 2 percent from 30,644 to 31,143, and Red Delicious increased 2 percent from 7,517 to 7,645.

In Central Ontario there were a total of 12,765 apple trees on standard rootstock (Table 13). The major cultivars grown were McIntosh (47%), Northern Spy (21%) and Red Delicious (17%). Fifty-one percent were over 30 years of age. A direct comparison with 1986 is not possible as the boundaries have changed for this district (see Foreword page v).

The Niagara District had 29,363 apple trees on standard rootstock (Table 14). Thirteen percent are over 30 years of age and 54 percent are between 17 and 30 years of age. The major cultivars grown are Northern Spy (25%), Red Delicious (23%) and McIntosh (18%). As with Central Ontario, a direct comparison with 1986 cannot be made as the district boundaries have changed.

There were a total of 59,380 apple trees on standard rootstock in South-Western Ontario in 1990, down 37 percent from 93,836 trees reported in 1986 (Table 15). Seventy-four percent were over 30 years of age. The major cultivars grown were McIntosh (39%), Northern Spy (28%) and Red Delicious (18%). From 1986 to 1990, the number of trees of the cultivar McIntosh decreased 44 percent from 41,373 to 23,367 trees, Northern Spy decreased 8 percent from 17,812 to 16,363 trees and Red Delicious decreased 46 percent from 19,897 to 10,784 trees.

APPLE ON SIZE-CONTROLLING ROOTSTOCK

Farm Size and Regional Distribution

In 1990 there were 1,502 farms reporting at least one apple tree on size-controlling rootstock, an increase of 14 percent from 1,313 in 1986 (Table 16). Of these farms, 33 percent have over 1,500 trees. The number of these larger farms has increased by 10 percent from 451 in 1986 to 494 in 1990. In 1990 there were 338 farms with 30 or fewer trees compared to 173 farms in 1986, an increase of 95 percent. The majority of the farms with apple trees on size-controlling rootstock are in South-Western Ontario (38%) and the Niagara District (28%).

Tree Distribution, Cultivars, Rootstock and Age

In 1990 there were a total of 3,733,567 apple trees on size-controlling rootstock, up 12 percent from 3,330,023 trees in 1986 (Table 17). Of the total trees in Ontario, 48 percent are located in South-Western Ontario, 20 percent in the Georgian Bay District and 17 percent in Eastern Ontario (Table 18).

Twenty-seven percent of the trees are of the cultivar McIntosh, 18 percent are Red Delicious, 12 percent are Empire and 10 percent are Idared. These four cultivars make up 67 percent of all trees. The largest percentage change in tree numbers since 1986 were of the cultivars R.I. Greening (-78%), Empire (61%), Mutsu (42%), Cortland (40%) and Golden Russet (30%).

The most abundant rootstock is M26, making up 41 percent of all trees on size-controlling rootstock (Table 19). In 1986 there were 1,258,788 trees on M26 rootstock which increased by 22 percent to 1,534,927 trees by 1990. However the most dramatic change was with the rootstock M9 which increased by 83 percent from 227,768 trees in 1986 to 415,704 trees in 1990.

A total of 66 percent of the trees were over 5 years of age and only 1 percent over 30 years (Table 20). Trees in the 1 to 5 year age group account for 34 percent of the total in 1990, compared to 41 percent in 1986 and 45 percent in 1981.

Regional Analysis

The number of apple trees on size-controlling rootstock in the St. Lawrence Valley District in 1990 was 73,273 trees, a decrease of 19 percent from 90,151 trees reported in 1986 (Table 23). Twenty-six percent were under 6 years of age and 63 percent between the ages of 6 and 10 years. The major cultivars grown were McIntosh (45%), Cortland (12%) and Empire (12%). From 1986 to 1990, the number of trees of the cultivar McIntosh decreased 35 percent from 50,385 to 33,025, Cortland increased 92 percent from 4,598 to 8,834 and Empire decreased 5 percent from 9,035 to 8,560 trees.

In Eastern Ontario there was a decrease of 3 percent in the total number of apple trees on size-controlling rootstock, from 654,785 trees in 1986 to 634,600 trees in 1990 (Table 24). Seventy-two percent of the trees were over 5 years of age. The major cultivars grown were McIntosh (35%), Red Delicious (17%) and Empire (11%). From 1986 to 1990, the number of trees of the cultivar McIntosh increased 4 percent from 209,868 to 219,066 trees, Red Delicious decreased 14 percent from 126,617 to 109,196 trees and Empire increased 8 percent from 65,685 to 71,131 trees.

Total apple trees on size-controlling rootstock in the Georgian Bay District increased by 34 percent from 556,722 trees in 1986 to 743,745 trees in 1990 (Table 25). Sixty-two percent were over 5 years of age and only 1 percent were over 30 years old. The major cultivars grown were McIntosh (39%), Northern Spy (20%), Red Delicious (9%) and Idared (9%). From 1986 to 1990, the number of trees of the cultivar McIntosh increased 37 percent from 214,450 to 293,722 trees, Northern Spy increased 48 percent from 99,941 to 148,357 trees, Red Delicious decreased 11 percent from 75,468 to 67,079 trees and Idared increased 27 percent from 52,805 to 66,896 trees.

In 1990 there were a total of 156,414 apple trees on size-controlling rootstock in Central Ontario (Table 26). Seventy-seven percent were over 5 years of age and 4 percent were over 30 years old. The major cultivars grown were McIntosh (28%), Red Delicious (17%), Golden Delicious (8%) and Cortland (8%). No comparison can be made with 1986 as the district boundaries have been changed (see Foreword page v).

In the Niagara District there were a total of 349,815 apple trees on size-controlling rootstock in 1990 (Table 27). Seventy-one percent were over 5 years of age and less than one percent over 30 years of age. The major cultivars grown were Red Delicious (22%), Golden Delicious (15%) and McIntosh (11%). Again, no comparison can be made with 1986 Census results due to changed boundaries for this district.

In 1990 the total number of apple trees on size-controlling rootstock in South-Western Ontario was 1,775,720, an increase of 26 percent from 1,405,256 trees reported in 1986 (Table 28). Thirty-six percent of these trees were under 6 years of age. The major cultivars grown were McIntosh (22%), Red Delicious (22%), Empire (16%) and Idared (12%). From 1986 to 1990, the number of trees of the cultivar McIntosh increased by 35 percent from 292,304 to 394,526 trees, Red Delicious increased 12 percent from 352,743 to 394,652 trees, Empire increased 91 percent from 147,198 to 281,230 trees and Idared increased 2 percent from 205,423 to 209,711 trees.

Tables 20 to 36 are the tabulations by Census district of apple trees on size-controlling rootstock by cultivar and age group, with a further breakdown by planting density. The remaining table, 37 to 76, are the tabulations of apple trees on size-controlling rootstock by cultivar and age group by rootstock and district.

SECTION II - APPLES ON STANDARD ROOTSTOCK

Table 6 - Farms Reporting Apple Trees on Standard Rootstock by the Number of Trees on Farms, Ontario, 1990

No. of Trees	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Farm Size as % of Total
1-30	9	33	19	10	149	198	418	45.44
31-150	6	38	36	12	55	65	212	23.04
151-300	5	18	19	11	13	32	98	10.65
301-600	2	13	26	8	8	35	92	10.00
601-1,500	2	8	31	5	6	19	71	7.72
1,501-3,000	0	3	14	0	0	1	18	1.96
3,001-4,500	0	1	3	0	0	2	6	0.65
4,501 and over	0	0	3	0	1	1	5	0.54
Total Farms	24	114	151	46	232	353	920	100.00
District as % of Total	2.61	12.39	16.41	5.00	25.22	38.37	100.00	

Table 7 - Apple Trees on Standard Rootstock in Ontario, 1971-1990

Cultivar	1971	1976	1981	1986	1990	1990 as % of 1986
Early McIntosh	13,332	9,515	6,371	2,714	2,145	79.03
Jerseymac	*	*	784	181	145	80.11
Paulared	*	*	709	928	309	33.30
Vista Bella	*	*	*	119	1,060	890.76
Other Early Cultivars	n/a	n/a	19,820	5,757	4,020	69.83
Total Early Cultivars	n/a	n/a	27,684	9,699	7,679	79.17
Cortland	22,190	17,905	16,096	9,242	7,230	78.23
Golden Delicious	11,422	11,037	10,340	5,231	5,349	102.26
Golden Russet	5,620	3,784	3,364	1,329	1,161	87.36
Empire	*	*	*	838	850	101.43
Idared	*	*	*	7,620	6,401	84.00
McIntosh	288,030	242,373	211,670	148,706	107,017	71.97
Mutsu or Crispin	*	*	*	2,901	2,303	79.39
Northern Spy	142,190	119,661	107,739	66,021	61,675	93.42
Red Delicious	97,296	93,094	90,981	39,878	30,115	75.52
R.I. Greening	22,695	16,546	12,259	10,241	2,340	22.85
Spartan	*	*	*	923	1,249	135.32
Other Late Cultivars	117,921	86,064	50,911	5,703	2,979	52.24
Total Late Cultivars	n/a	n/a	503,360	298,633	228,669	76.57
Total	726,184	605,490	531,044	308,332	236,348	76.65

* Not specified in these years, included in 'Other Cultivars'. Note: Prior to 1981, 'Other Cultivars' were not grouped into Early' and 'Late' categories. For 1966 to 1976, the total number of Early and Late cultivars are included in 'Other Late Cultivars'.

Table 8 - Apple Trees on Standard Rootstock by Cultivar and District, Ontario, 1990

Cultivar	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Cultivar as % of Total
Early McIntosh	58	56	606	115	859	451	2,145	0.91
Jerseymac	3	0	119	0	11	12	145	0.06
Paulared	38	102	12	0	133	24	309	0.13
Vista Bella	0	7	1	0	1,021	31	1,060	0.45
Other Early Cultivars ..	328	1,377	1,065	213	161	877	4,021	1.70
Total Early Cultivars ...	427	1,542	1,803	328	2,185	1,395	7,680	3.25
Cortland	465	875	2,229	598	853	2,210	7,230	3.06
Golden Delicious	0	327	40	236	2,419	2,327	5,349	2.26
Golden Russet	7	281	83	285	110	395	1,161	0.49
Empire	25	2	1	0	607	215	850	0.36
Idared	3	50	4,331	40	1,577	400	6,401	2.71
McIntosh	2,625	18,046	51,741	6,084	5,154	23,367	107,017	45.28
Mutsu or Crispin	6	11	345	32	1,659	250	2,303	0.97
Northern Spy	0	4,053	31,143	2,715	7,401	16,363	61,675	26.10
Red Delicious	6	2,685	7,645	2,187	6,808	10,784	30,115	12.74
R.I. Greening	0	969	433	57	165	716	2,340	0.99
Spartan	67	75	689	35	300	83	1,249	0.53
Other Late Cultivars ...	445	592	773	168	125	875	2,978	1.26
Total Late Cultivars	3,649	27,966	99,453	12,437	27,178	57,985	228,668	96.75
Total	4,076	29,508	101,256	12,765	29,363	59,380	236,348	100.00
District as % of Total	1.73	12.49	42.84	5.40	12.42	25.12	100.00	

Table 9 - Apple Trees on Standard Rootstock by Cultivar and Age Group, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	98	339	425	955	328	2,145	0.91
Jerseymac	4	132	2	1	6	145	0.06
Paulared	33	127	141	0	8	309	0.13
Vista Bella	8	1,008	28	2	14	1,060	0.45
Other Early Cultivars ..	317	43	736	1,298	1,627	4,021	1.70
Total Early Cultivars ...	460	1,649	1,332	2,256	1,983	7,680	3.25
Cortland	210	254	404	1,629	4,733	7,230	3.06
Golden Delicious	459	729	986	1,949	1,226	5,349	2.26
Golden Russet	39	300	158	288	376	1,161	0.49
Empire	183	454	6	204	3	850	0.36
Idared	231	951	1,723	3,429	67	6,401	2.71
McIntosh	1,007	1,949	861	36,768	66,432	107,017	45.28
Mutsu or Crispin	686	519	393	18	687	2,303	0.97
Northern Spy	797	952	1,138	16,351	42,437	61,675	26.10
Red Delicious	1,054	2,656	2,123	12,725	11,557	30,115	12.74
R.I. Greening	24	28	30	1,187	1,071	2,340	0.99
Spartan	53	122	270	764	40	1,249	0.53
Other Late Cultivars ...	619	15	11	410	1,923	2,978	1.26
Total Late Cultivars	5,362	8,929	8,103	75,722	130,552	228,668	96.75
Total	5,822	10,578	9,435	77,978	132,535	236,348	100.00
Age Group as % of Total	2.46	4.48	3.99	32.99	56.08	100.00	

Table 10 - Apple Trees on Standard Rootstock by Cultivar and Age Group, St. Lawrence Valley District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	7	1	0	50	0	58	1.42
Jerseymac	0	3	0	0	0	3	0.08
Paulared	10	20	0	0	8	38	0.93
Other Early Cultivars	0	0	0	6	322	328	8.05
Total Early Cultivars	17	24	0	56	330	427	10.48
Cortland	8	1	126	11	319	465	11.41
Golden Russet	0	1	0	1	5	7	0.17
Empire	0	25	0	0	0	25	0.61
Idared	0	1	0	0	2	3	0.07
McIntosh	38	133	87	425	1,942	2,625	64.40
Mutsu or Crispin	6	0	0	0	0	6	0.15
Red Delicious	3	0	0	3	0	6	0.15
Spartan	0	0	60	7	0	67	1.64
Other Late Cultivars	10	0	0	2	433	445	10.92
Total Late Cultivars	65	161	273	449	2,701	3,649	89.52
Total	82	185	273	505	3,031	4,076	100.00
Age Group as % of Total	2.01	4.54	6.70	12.39	74.36	100.00	

Table 11 - Apple Trees on Standard Rootstock by Cultivar and Age Group, Eastern Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	7	41	0	0	8	56	0.19
Paulared	2	100	0	0	0	102	0.35
Vista Bella	0	0	0	0	7	7	0.02
Other Early Cultivars	0	2	562	741	72	1,377	4.67
Total Early Cultivars	9	143	562	741	87	1,542	5.23
Cortland	0	58	0	119	698	875	2.96
Golden Delicious	0	7	0	318	2	327	1.11
Golden Russet	0	15	132	81	53	281	0.95
Empire	0	1	0	1	0	2	0.01
Idared	14	11	0	21	4	50	0.17
McIntosh	301	1,449	122	4,431	11,743	18,046	61.16
Mutsu or Crispin	2	9	0	0	0	11	0.04
Northern Spy	36	219	42	909	2,847	4,053	13.73
Red Delicious	1	213	60	1,504	907	2,685	9.10
R.I. Greening	0	0	0	910	59	969	3.28
Spartan	5	1	4	65	0	75	0.25
Other Late Cultivars	134	5	0	65	388	592	2.01
Total Late Cultivars	493	1,988	360	8,424	16,701	27,966	94.77
Total	502	2,131	922	9,165	16,788	29,508	100.00
Age Group as % of Total	1.70	7.22	3.13	31.06	56.89	100.00	

Table 12 - Apple Trees on Standard Rootstock by Cultivar and Age Group, Georgian Bay District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	0	49	151	287	119	606	0.60
Jerseymac	2	117	0	0	0	119	0.12
Paulared	12	0	0	0	0	12	0.01
Vista Bella	0	0	0	0	1	1	0.00
Other Early Cultivars	247	0	0	436	382	1,065	1.05
Total Early Cultivars	261	166	151	723	502	1,803	1.78
Cortland	55	32	2	704	1,436	2,229	2.20
Golden Delicious	1	11	0	12	16	40	0.04
Golden Russet	0	23	4	37	19	83	0.08
Empire	1	0	0	0	0	1	0.00
Idared	0	399	1,580	2,350	2	4,331	4.28
McIntosh	431	90	408	21,691	29,121	51,741	51.10
Mutsu or Crispin	2	1	0	1	341	345	0.34
Northern Spy	214	137	173	7,953	22,666	31,143	30.76
Red Delicious	12	13	65	3,605	3,950	7,645	7.55
R.I. Greening	1	0	2	177	253	433	0.43
Spartan	15	1	3	667	3	689	0.68
Other Late Cultivars	389	0	4	201	179	773	0.76
Total Late Cultivars	1,121	707	2,241	37,398	57,986	99,453	98.22
Total	1,382	873	2,392	38,121	58,488	101,256	100.00
Age Group as % of Total	1.37	0.86	2.36	37.65	57.76	100.00	

Table 13 - Apple Trees on Standard Rootstock by Cultivar and Age Group, Central Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	18	1	43	23	30	115	0.90
Other Early Cultivars	35	0	0	6	172	213	1.67
Total Early Cultivars	53	1	43	29	202	328	2.57
Cortland	30	21	162	146	239	598	4.69
Golden Delicious	7	201	20	8	0	236	1.85
Golden Russet	0	203	5	73	4	285	2.23
Idared	2	25	0	13	0	40	0.31
McIntosh	2	16	20	2,588	3,458	6,084	47.66
Mutsu or Crispin	2	30	0	0	0	32	0.25
Northern Spy	203	18	131	570	1,793	2,715	21.27
Red Delicious	32	923	152	492	588	2,187	17.13
R.I. Greening	21	0	5	12	19	57	0.45
Spartan	16	12	0	0	7	35	0.27
Other Late Cultivars	0	0	0	5	163	168	1.32
Total Late Cultivars	315	1,449	495	3,907	6,271	12,437	97.43
Total	368	1,450	538	3,936	6,473	12,765	100.00
Age Group as % of Total	2.88	11.36	4.22	30.83	50.71	100.00	

Table 14 - Apple Trees on Standard Rootstock by Cultivar and Age Group, Niagara District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	16	161	190	480	12	859	2.92
Jerseymac	0	10	0	1	0	11	0.04
Paulared	1	2	130	0	0	133	0.45
Vista Bella	6	1,006	3	0	6	1,021	3.48
Other Early Cultivars	4	1	40	8	108	161	0.55
Total Early Cultivars	27	1,180	363	489	126	2,185	7.44
Cortland	75	105	43	351	279	853	2.90
Golden Delicious	244	435	609	999	132	2,419	8.24
Golden Russet	18	45	12	2	33	110	0.37
Empire	26	386	0	195	0	607	2.07
Idared	169	471	120	815	2	1,577	5.37
McIntosh	125	124	144	3,863	898	5,154	17.55
Mutsu or Crispin	653	433	243	0	330	1,659	5.65
Northern Spy	145	384	591	4,998	1,283	7,401	25.21
Red Delicious	545	832	853	3,994	584	6,808	23.19
R.I. Greening	1	28	14	6	116	165	0.56
Spartan	9	91	200	0	0	300	1.02
Other Late Cultivars	8	0	0	5	112	125	0.43
Total Late Cultivars	2,018	3,334	2,829	15,228	3,769	27,178	92.56
Total	2,045	4,514	3,192	15,717	3,895	29,363	100.00
Age Group as % of Total	6.97	15.37	10.87	53.53	13.26	100.00	

Table 15 - Apple Trees on Standard Rootstock by Cultivar and Age Group, South-Western Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	50	86	41	115	159	451	0.76
Jerseymac	2	2	2	0	6	12	0.02
Paulared	8	5	11	0	0	24	0.04
Vista Bella	2	2	25	2	0	31	0.05
Other Early Cultivars	31	40	134	101	571	877	1.48
Total Early Cultivars	93	135	213	218	736	1,395	2.35
Cortland	42	37	71	298	1,762	2,210	3.72
Golden Delicious	207	75	357	612	1,076	2,327	3.92
Golden Russet	21	13	5	94	262	395	0.67
Empire	156	42	6	8	3	215	0.36
Idared	46	44	23	230	57	400	0.67
McIntosh	110	137	80	3,770	19,270	23,367	39.35
Mutsu or Crispin	21	46	150	17	16	250	0.42
Northern Spy	199	194	201	1,921	13,848	16,363	27.56
Red Delicious	461	675	993	3,127	5,528	10,784	18.16
R.I. Greening	1	0	9	82	624	716	1.21
Spartan	8	17	3	25	30	83	0.14
Other Late Cultivars	78	10	7	132	648	875	1.47
Total Late Cultivars	1,350	1,290	1,905	10,316	43,124	57,985	97.65
Total	1,443	1,425	2,118	10,534	43,860	59,380	100.00
Age Group as % of Total	2.43	2.40	3.57	17.74	73.86	100.00	

SECTION III - APPLES ON SIZE-CONTROLLING ROOTSTOCKS

Table 16 - Farms Reporting Apple Trees on Size-Controlling Rootstocks by the Number of Trees on Farms, Ontario, 1990

No. of Trees	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Farm Size as % of Total
1-30	14	19	25	8	126	146	338	22.50
31-150	4	13	18	10	79	54	178	11.85
151-300	4	23	18	5	43	42	135	8.99
301-600	3	11	12	4	51	38	119	7.92
601-1,500	8	30	43	6	66	85	238	15.85
1,501-3,000	12	26	27	13	26	66	170	11.32
3,001-4,500	1	21	28	4	12	38	104	6.92
4,501 and over	4	41	42	13	17	103	220	14.65
Total Farms	50	184	213	63	420	572	1,502	100.00
District as % of Total	3.33	12.25	14.18	4.20	27.96	38.08	100.00	

Table 17 - Apple Trees on Size-Controlling Rootstock, Ontario, 1971-1990

Cultivar	1971	1976	1981	1986	1990	1990 as % of 1986
Early McIntosh	11,575	14,322	15,955	25,802	19,858	76.96
Jerseymac	*	*	23,999	43,997	55,632	126.44
Paulared	*	*	38,025	57,483	63,570	110.59
Vista Bella	*	*	*	29,708	26,762	90.08
Other Early Cultivars	*	*	121,735	49,129	47,343	96.36
Total Early Cultivars	*	*	199,714	206,119	213,165	103.42
Cortland	11,037	19,251	42,369	68,782	96,126	139.75
Golden Delicious	50,015	71,383	106,010	195,611	210,106	107.41
Golden Russet	*	*	19,094	26,703	34,741	130.10
Empire	*	30,887	116,902	272,606	437,686	160.56
Idared	*	84,182	244,765	382,009	378,722	99.14
McIntosh	229,960	314,528	522,162	887,576	1,022,285	115.18
Mutsu or Crispin	*	*	55,592	106,972	151,988	142.08
Northern Spy	81,651	115,202	190,648	254,163	281,640	110.81
Red Delicious	218,877	349,636	543,467	710,989	675,732	95.04
R.I. Greening	*	*	*	12,224	2,686	21.97
Spartan	*	72,766	131,687	146,479	138,367	94.46
Other Late Cultivars	151,145	182,059	47,940	59,790	90,323	151.07
Total Late Cultivars	742,685	1,239,894	2,020,636	3,123,904	3,520,402	112.69
Total	754,260	1,254,216	2,220,350	3,330,023	3,733,567	112.12

* Not specified in these years. Note: Prior to 1981, 'Other Cultivars' were not grouped into 'Early' and 'Late' categories. For 1966 to 1976, the total number of Early and Late cultivars are included in 'Other Late Cultivars'.

Table 18 - Apple Trees on Size-Controlling Rootstocks by Cultivar and District, Ontario, 1990

Cultivar	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Cultivar as % of Total
Early McIntosh	3,234	3,377	4,192	529	3,225	5,301	19,858	0.53
Jerseymac	1,789	7,165	29,571	2,750	3,347	11,010	55,632	1.49
Paulared	2,794	24,176	6,298	3,176	6,416	20,710	63,570	1.70
Vista Bella	961	3,963	2,984	1,896	4,664	12,294	26,762	0.72
Other Early Cultivars	1,539	10,704	9,194	5,400	6,697	13,809	47,343	1.27
Total Early Cultivars	10,317	49,385	52,239	13,751	24,349	63,124	213,165	5.71
Cortland	8,834	17,434	15,644	12,631	14,346	27,237	96,126	2.57
Golden Delicious	12	10,119	6,549	12,698	51,515	129,213	210,106	5.63
Golden Russet	686	11,039	3,117	3,109	6,154	10,636	34,741	0.93
Empire	8,560	71,131	40,122	9,418	27,225	281,230	437,686	11.72
Idared	1,661	61,810	66,896	9,057	29,587	209,711	378,722	10.14
McIntosh	33,025	219,066	293,722	43,482	38,464	394,526	1,022,285	27.38
Mutsu or Crispin	25	9,241	2,634	6,419	34,885	98,784	151,988	4.07
Northern Spy	197	38,461	148,357	9,459	17,570	67,596	281,640	7.55
Red Delicious	432	109,196	67,079	27,242	77,131	394,652	675,732	18.10
R.I. Greening	31	204	805	210	813	623	2,686	0.07
Spartan	7,214	30,233	40,268	5,949	16,740	37,963	138,367	3.71
Other Late Cultivars	2,279	7,281	6,313	2,989	11,036	60,425	90,323	2.42
Total Late Cultivars	62,956	585,215	691,506	142,663	325,466	1,712,596	3,520,402	94.29
Total	73,273	634,600	743,745	156,414	349,815	1,775,720	3,733,567	100.00
District as % of Total	1.96	17.00	19.92	4.19	9.37	47.56	100.00	

Table 19 - Apple Trees on Size-Controlling Rootstocks by Rootstock and District, Ontario, 1990

Rootstock	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Rootstock as % of Total
M2	3	2,946	11,608	3,524	8,595	25,220	51,896	1.39
M7	746	43,544	82,189	44,481	47,445	220,591	438,996	11.76
M9	1,661	22,179	13,674	29,100	31,673	317,417	415,704	11.14
M26	29,962	371,097	309,851	45,966	190,276	587,775	1,534,927	41.11
MM106	7,106	159,096	271,818	24,497	52,518	502,468	1,017,503	27.25
MM111	32,452	18,795	28,459	6,011	7,003	86,142	178,862	4.79
Other	1,343	16,943	26,146	2,835	12,305	36,107	95,679	2.56
Total	73,273	634,600	743,745	156,414	349,815	1,775,720	3,733,567	100.00
District as % of Total	1.96	17.00	19.92	4.19	9.37	47.56	100.00	

Table 20 - Apple Trees on Size-Controlling Rootstocks by Rootstock and Age Group, Ontario, 1990

Rootstock	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 years and Over	Total	Rootstock as % of Total
M2	957	1,242	4,707	31,061	13,929	51,896	1.39
M7	118,997	123,772	58,465	123,373	14,389	438,996	11.76
M9	199,535	89,933	69,651	50,236	6,349	415,704	11.14
M26	580,819	509,385	375,607	66,920	2,196	1,534,927	41.11
MM106	299,962	348,298	204,703	162,400	2,140	1,017,503	27.25
MM111	40,079	73,623	32,216	30,925	2,019	178,862	4.79
Other	15,700	12,308	28,725	32,043	6,903	95,679	2.56
Total	1,256,049	1,158,561	774,074	496,958	47,925	3,733,567	100.00
Age Group as % of Total	33.64	31.03	20.73	13.31	1.29	100.00	

Table 21 - Apple Trees on Size-Controlling Rootstocks by Cultivar and Rootstock, Ontario, 1990

Cultivar	M2	M7	M9	M26	MM106	MM111	Other	Total	Cultivar as % of Total
Early McIntosh	464	2,351	1,086	9,069	5,207	1,131	550	19,858	0.53
Jerseymac	20	3,637	1,683	32,531	16,313	1,418	30	55,632	1.49
Paulared	205	4,822	2,307	36,699	15,074	3,737	726	63,570	1.70
Vista Bella	138	2,249	1,512	17,955	4,101	564	243	26,762	0.72
Other Early	516	6,487	3,124	14,403	9,767	3,175	9,871	47,343	1.27
Total Early	1,343	19,546	9,712	110,657	50,462	10,025	11,420	213,165	5.71
Cortland	1,888	15,200	7,118	55,433	11,751	3,637	1,099	96,126	2.58
Golden Delicious	2,013	27,538	25,465	105,634	27,618	16,485	5,353	210,106	5.63
Golden Russet	178	4,396	4,655	18,536	5,369	1,451	156	34,741	0.93
Empire	391	55,726	58,787	200,242	101,198	18,026	3,316	437,686	11.72
Idared	6,372	46,038	38,536	114,929	147,086	22,363	3,398	378,722	10.14
McIntosh	18,598	113,968	101,849	368,934	343,780	47,553	27,603	1,022,285	27.38
Mutsu or Crispin	1,084	21,790	23,706	79,338	21,641	2,839	1,590	151,988	4.07
Northern Spy	8,939	37,789	23,309	144,430	50,119	5,959	11,095	281,640	7.54
Red Delicious	9,063	75,306	84,788	240,445	203,782	41,531	20,817	675,732	18.10
R.I. Greening	306	399	193	400	1,349	19	20	2,686	0.07
Spartan	518	12,755	11,489	75,354	31,862	6,128	261	138,367	3.71
Other Late	1,203	8,545	26,097	20,595	21,486	2,846	9,551	90,323	2.42
Total Late	50,553	419,450	405,992	1,424,270	967,041	168,837	84,259	3,520,402	94.29
Total	51,896	438,996	415,704	1,534,927	1,017,503	178,862	95,679	3,733,567	100.00
Rootstock as % of Total	1.39	11.76	11.14	41.11	27.25	4.79	2.56	100.00	

Table 22 - Apple Trees on Size-Controlling Rootstocks by Cultivar and Age Group, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	5,924	6,117	2,320	4,868	629	19,858	0.53
Jerseymac	20,477	19,849	14,062	1,244	0	55,632	1.49
Paulared	16,682	23,736	20,427	2,718	7	63,570	1.70
Vista Bella	6,539	11,405	6,563	2,230	25	26,762	0.72
Other Early Cultivars	9,244	12,829	12,225	11,917	1,128	47,343	1.27
Total Early Cultivars	58,866	73,936	55,597	22,977	1,789	213,165	5.71
Cortland	35,407	36,128	15,131	8,682	778	96,126	2.58
Golden Delicious	73,777	75,681	32,813	26,039	1,796	210,106	5.63
Golden Russet	17,049	7,244	7,235	2,721	492	34,741	0.93
Empire	224,708	138,335	67,308	7,244	91	437,686	11.72
Idared	82,951	163,523	102,129	28,481	1,638	378,722	10.14
McIntosh	338,840	323,315	182,446	158,697	18,987	1,022,285	27.38
Mutsu or Crispin	71,857	39,657	30,148	9,634	692	151,988	4.07
Northern Spy	93,620	61,837	58,282	59,927	7,974	281,640	7.54
Red Delicious	181,898	173,896	168,175	140,330	11,433	675,732	18.10
R.I. Greening	441	722	85	1,117	321	2,686	0.07
Spartan	24,333	44,392	47,836	21,589	217	138,367	3.71
Other Late Cultivars	52,302	19,895	6,889	9,520	1,717	90,323	2.42
Total Late Cultivars	1,197,183	1,084,625	718,477	473,981	46,136	3,520,402	94.29
Total	1,256,049	1,158,561	774,074	496,958	47,925	3,733,567	100.00
Age Group as % of Total	33.64	31.03	20.73	13.31	1.29	100.00	

Table 23 - Apple Trees on Size-Controlling Rootstocks by Cultivar and Age Group, St. Lawrence Valley District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	1,199	2,025	10	0	0	3,234	4.41
Jerseymac	484	1155	150	0	0	1,789	2.44
Paulared	405	2,272	110	0	7	2,794	3.81
Vista Bella	358	503	100	0	0	961	1.31
Other Early Cultivars	217	1,039	215	37	31	1,539	2.10
Total Early Cultivars	2,663	6,994	585	37	38	10,317	14.07
Cortland	3,563	4,555	690	26	0	8,834	12.06
Golden Delicious	12	0	0	0	0	12	0.02
Golden Russet	114	572	0	0	0	686	0.94
Empire	505	7,344	710	0	1	8,560	11.68
Idared	16	1,635	10	0	0	1,661	2.27
McIntosh	9,152	19,172	4,081	607	13	33,025	45.07
Mutsu or Crispin	25	0	0	0	0	25	0.03
Northern Spy	61	135	0	0	1	197	0.27
Red Delicious	50	381	0	0	1	432	0.59
R.I. Greening	30	1	0	0	0	31	0.04
Spartan	1,958	4,147	1,109	0	0	7,214	9.85
Other Late Cultivars	728	1,181	6	115	249	2,279	3.11
Total Late Cultivars	16,214	39,123	6,606	748	265	62,956	85.93
Total	18,877	46,117	7,191	785	303	73,273	100.00
Age Group as % of Total	25.76	62.94	9.82	1.07	0.41	100.00	

Table 24 - Apple Trees on Size-Controlling Rootstocks by Cultivar and Age Group, Eastern Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	1,250	1,722	6	373	26	3,377	0.53
Jerseymac	3,390	1,915	1,732	128	0	7,165	1.13
Paulared	6,355	8,621	9,189	11	0	24,176	3.81
Vista Bella	332	2,379	1,202	50	0	3,963	0.62
Other Early Cultivars	979	4,156	3,908	1,320	341	10,704	1.69
Total Early Cultivars	12,306	18,793	16,037	1,882	367	49,385	7.78
Cortland	5,290	7,312	2,602	2,091	139	17,434	2.75
Golden Delicious	6,045	2,822	670	563	19	10,119	1.59
Golden Russet	6,194	1,165	3,061	555	64	11,039	1.74
Empire	27,314	31,022	12,330	465	0	71,131	11.21
Idared	14,004	20,383	24,999	2,369	55	61,810	9.74
McIntosh	60,324	75,494	43,071	36,454	3,723	219,066	34.52
Mutsu or Crispin	5,639	1,863	1,664	75	0	9,241	1.46
Northern Spy	11,510	11,601	10,180	3,516	1,654	38,461	6.06
Red Delicious	22,732	43,926	25,499	14,883	2,156	109,196	17.21
R.I. Greening	70	119	5	10	0	204	0.03
Spartan	2,172	12,016	12,232	3,813	0	30,233	4.76
Other Late Cultivars	2,716	1,994	1,372	1,068	131	7,281	1.15
Total Late Cultivars	164,010	209,717	137,685	65,862	7,941	585,215	92.22
Total	176,316	228,510	153,722	67,744	8,308	634,600	100.00
Age Group as % of Total	27.78	36.01	24.22	10.68	1.31	100.00	

Table 25 - Apple Trees on Size-Controlling Rootstocks by Cultivar and Age Group, Georgian Bay District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	512	219	494	2,575	392	4,192	0.56
Jerseymac	8714	11780	9077	0	0	29,571	3.97
Paulared	3,046	2,037	915	300	0	6,298	0.85
Vista Bella	376	2,271	335	0	2	2,984	0.40
Other Early Cultivars	2,965	1,875	1,247	2,768	339	9,194	1.24
Total Early Cultivars	15,613	18,182	12,068	5,643	733	52,239	7.02
Cortland	6,437	6,903	1,041	1,217	46	15,644	2.10
Golden Delicious	568	1,127	618	4,186	50	6,549	0.88
Golden Russet	1,497	939	204	272	205	3,117	0.42
Empire	28,727	10,610	398	387	0	40,122	5.40
Idared	19,439	30,658	12,737	4,062	0	66,896	9.00
McIntosh	123,340	89,442	35,483	42,726	2,731	293,722	39.49
Mutsu or Crispin	616	627	10	861	520	2,634	0.35
Northern Spy	64,446	30,492	25,360	25,873	2,186	148,357	19.95
Red Delicious	10,084	8,188	18,293	30,166	348	67,079	9.02
R.I. Greening	0	25	0	540	240	805	0.11
Spartan	13,248	11,603	9,067	6,150	200	40,268	5.41
Other Late Cultivars	2,023	519	245	3,013	513	6,313	0.85
Total Late Cultivars	270,425	191,133	103,456	119,453	7,039	691,506	92.98
Total	286,038	209,315	115,524	125,096	7,772	743,745	100.00
Age Group as % of Total	38.46	28.14	15.54	16.82	1.04	100.00	

Table 26 - Apple Trees on Size-Controlling Rootstocks by Cultivar and Age Group, Central Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	40	100	180	207	2	529	0.34
Jerseymac	1,304	896	550	0	0	2,750	1.76
Paulared	680	898	1,598	0	0	3,176	2.03
Vista Bella	425	646	825	0	0	1,896	1.21
Other Early Cultivars	1,705	1,633	1,193	726	143	5,400	3.45
Total Early Cultivars	4,154	4,173	4,346	933	145	13,751	8.79
Cortland	2,351	6,348	2,815	977	140	12,631	8.08
Golden Delicious	3,571	3,232	3,625	2,034	236	12,698	8.12
Golden Russet	1,240	621	407	841	0	3,109	1.99
Empire	4,855	3,544	981	38	0	9,418	6.02
Idared	1,779	2,456	4,599	223	0	9,057	5.79
McIntosh	8,649	5,941	7,590	19,415	1,887	43,482	27.80
Mutsu or Crispin	2,123	1,888	1,229	1,179	0	6,419	4.10
Northern Spy	1,220	2,118	2,946	2,548	627	9,459	6.05
Red Delicious	3,725	3,743	8,069	9,484	2,221	27,242	17.42
R.I. Greening	175	0	0	0	35	210	0.13
Spartan	710	1,044	2,924	1,271	0	5,949	3.80
Other Late Cultivars	1,694	399	507	72	317	2,989	1.91
Total Late Cultivars	32,092	31,334	35,692	38,082	5,463	142,663	91.21
Total	36,246	35,507	40,038	39,015	5,608	156,414	100.00
Age Group as % of Total	23.17	22.70	25.60	24.94	3.59	100.00	

Table 27 - Apple Trees on Size-Controlling Rootstocks by Cultivar and Age Group, Niagara District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	158	801	836	1,382	48	3,225	0.92
Jerseymac	1379	1443	525	0	0	3,347	0.96
Paulared	1,627	2,919	1,678	192	0	6,416	1.83
Vista Bella	2,284	1,328	917	128	7	4,664	1.33
Other Early Cultivars	578	2,114	966	2,964	75	6,697	1.92
Total Early Cultivars	6,026	8,605	4,922	4,666	130	24,349	6.96
Cortland	4,379	4,259	3,021	2,383	304	14,346	4.10
Golden Delicious	13,983	19,748	8,549	8,822	413	51,515	14.73
Golden Russet	2,382	2,261	1,223	285	3	6,154	1.76
Empire	13,098	7,524	5,658	939	6	27,225	7.78
Idared	5,529	12,690	8,638	2,704	26	29,587	8.46
McIntosh	12,984	6,027	6,488	12,727	238	38,464	11.00
Mutsu or Crispin	14,740	10,102	8,409	1,616	18	34,885	9.97
Northern Spy	3,017	2,678	2,126	9,414	335	17,570	5.02
Red Delicious	18,649	16,080	17,006	25,186	210	77,131	22.05
R.I. Greening	136	170	79	411	17	813	0.23
Spartan	1,918	6,186	3,441	5,178	17	16,740	4.79
Other Late Cultivars	5,650	1,975	1,035	2,276	100	11,036	3.15
Total Late Cultivars	96,465	89,700	65,673	71,941	1,687	325,466	93.04
Total	102,491	98,305	70,595	76,607	1,817	349,815	100.00
Age Group as % of Total	29.30	28.10	20.18	21.90	0.52	100.00	

Table 28 - Apple Trees on Size-Controlling Rootstocks by Cultivar and Age Group, South-Western Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	2,765	1,250	794	331	161	5,301	0.30
Jerseymac	5,206	2,660	2,028	1,116	0	11,010	0.62
Paulared	4,569	6,989	6,937	2,215	0	20,710	1.16
Vista Bella	2,764	4,278	3,184	2,052	16	12,294	0.69
Other Early Cultivars	2,800	2,012	4,696	4,102	199	13,809	0.78
Total Early Cultivars	18,104	17,189	17,639	9,816	376	63,124	3.55
Cortland	13,387	6,751	4,962	1,988	149	27,237	1.53
Golden Delicious	49,598	48,752	19,351	10,434	1,078	129,213	7.28
Golden Russet	5,622	1,686	2,340	768	220	10,636	0.60
Empire	150,209	78,291	47,231	5,415	84	281,230	15.84
Idared	42,184	95,701	51,146	19,123	1,557	209,711	11.81
McIntosh	124,391	127,239	85,733	46,768	10,395	394,526	22.22
Mutsu or Crispin	48,714	25,177	18,836	5,903	154	98,784	5.56
Northern Spy	13,366	14,813	17,670	18,576	3,171	67,596	3.81
Red Delicious	126,658	101,578	99,308	60,611	6,497	394,652	22.22
R.I. Greening	30	407	1	156	29	623	0.04
Spartan	4,327	9,396	19,063	5,177	0	37,963	2.14
Other Late Cultivars	39,491	13,827	3,724	2,976	407	60,425	3.40
Total Late Cultivars	617,977	523,618	369,365	177,895	23,741	1,712,596	96.45
Total	636,081	540,807	387,004	187,711	24,117	1,775,720	100.00
Age Group as % of Total	35.82	30.46	21.79	10.57	1.36	100.00	

Table 29 - Apple Trees on Size-Controlling Rootstock by Cultivar, Age Group and Density of Planting, Ontario, 1990

Cultivar	1 to 5 Years — Planting Density (Trees/Acre)				6 to 10 Years — Planting Density (Trees/Acre)				11 to 16 Years — Planting Density (Trees/Acre)				17 to 30 Years — Planting Density (Trees/Acre)				31 Years & Over — Planting Density (Trees/Acre)				Cultivar as % of Total	
	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	Total	
Early McIntosh	25	2,852	1,237	1,810	128	2,483	3,384	122	224	1,094	779	223	449	2,254	747	1,418	209	420	0	0	19,656	0.53
Jerseymac	341	7,251	11,342	1,543	196	14,202	3,832	1,619	20	4,984	8,900	158	0	745	371	128	0	0	0	0	55,632	1.49
Paulared	47	6,982	8,034	1,619	603	11,820	10,018	1,295	8	6,864	11,728	1,827	11	2,378	329	0	7	0	0	0	63,570	1.70
Vista Bella	48	2,298	2,848	1,345	201	5,913	4,994	297	49	2,629	3,607	278	12	732	1,486	0	25	0	0	0	26,762	0.72
Other Early Cultivars	330	4,231	4,206	477	261	8,879	2,803	886	810	5,870	5,033	512	874	9,979	716	348	400	726	0	0	47,343	1.27
Total Early Cultivars	791	23,614	27,667	6,794	1,369	43,297	25,031	4,219	1,111	21,441	30,047	2,998	1,346	16,088	3,649	1,894	641	1,148	0	0	213,165	5.71
Cortland	199	10,096	20,450	4,662	413	17,481	12,987	5,247	364	6,968	6,801	998	656	6,022	1,333	871	111	652	15	0	96,126	2.58
Golden Delicious	306	20,321	32,072	21,078	336	26,739	37,322	11,284	271	14,174	13,678	4,690	745	22,842	2,013	439	142	1,654	0	0	210,106	5.63
Golden Russet	139	3,393	6,044	5,473	125	4,105	2,871	143	133	2,760	3,944	398	398	1,413	877	33	229	263	0	0	34,741	0.93
Empire	763	78,759	103,941	41,245	588	69,308	45,503	22,936	219	29,850	28,266	8,973	81	4,921	1,827	415	4	80	7	0	437,686	11.72
Idared	495	30,581	37,346	14,529	1,053	78,835	61,071	22,564	443	45,407	44,649	11,630	623	18,511	3,119	6,228	10	1,551	77	0	378,722	10.14
McIntosh	1,299	120,320	156,741	60,480	2,282	145,117	128,498	47,418	4,094	82,898	70,579	24,875	6,861	111,057	23,980	16,799	6,747	8,878	2,196	1,164	1,022,285	27.38
Mutsu or Crispin	1,131	19,661	31,728	19,337	497	21,557	13,508	4,095	455	13,665	13,294	2,734	1,199	6,885	1,550	0	520	154	18	0	151,988	4.07
Northern Spy	677	42,167	44,194	6,582	578	41,110	16,682	3,467	869	20,371	26,008	11,034	4,940	42,684	10,535	1,768	2,753	4,308	687	226	281,640	7.54
Red Delicious	632	63,575	78,584	39,107	968	80,537	72,586	19,805	1,748	73,517	67,166	25,744	2,533	89,964	35,917	11,916	2,164	6,213	213	2,843	675,732	18.10
R.I. Greening	0	253	188	0	112	525	84	1	0	37	42	6	0	1,106	11	0	49	272	0	0	2,686	0.07
Spartan	2,089	10,845	10,044	1,355	1,575	15,059	21,345	6,413	410	16,076	25,015	6,335	566	11,337	7,553	2,133	9	200	8	0	138,367	3.71
Other Late Cultivars	458	7,150	22,971	21,723	288	9,068	8,175	2,364	230	4,018	1,647	994	1,136	7,061	1,241	82	887	655	175	0	90,323	2.42
Total Late Cultivars	6,188	407,121	546,303	235,571	8,815	509,441	420,632	145,737	9,236	309,741	301,089	98,411	19,738	323,803	89,956	40,484	13,625	24,880	3,396	4,233	3,520,402	94.29
Total	6,979	430,735	573,970	242,365	10,204	552,738	445,663	149,956	10,347	331,182	331,136	101,409	21,084	339,891	93,605	42,378	14,266	26,028	3,396	4,233	3,733,567	100.00
Age Group / Planting Density as % of Total	0.24	11.54	15.37	6.49	0.27	14.80	11.94	4.02	0.28	8.87	8.87	2.72	0.56	9.10	2.51	1.14	0.38	0.70	0.09	0.11	100.00	

Table 30 - Apple Trees on M2 Rootstock by Cultivar, Age Group and Density of Planting, Ontario, 1990

Cultivar	1 to 5 Years — Planting Density (Trees/Acre)				6 to 10 Years — Planting Density (Trees/Acre)				11 to 16 Years — Planting Density (Trees/Acre)				17 to 30 Years — Planting Density (Trees/Acre)				31 Years & Over — Planting Density (Trees/Acre)				Cultivar as % of Total	
	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	Total	
Early McIntosh	0	19	0	0	0	5	0	0	0	147	0	0	0	223	0	0	40	30	0	0	464	0.89
Jerseymac	0	0	0	0	0	5	0	0	0	0	0	0	0	15	0	0	0	0	0	0	20	0.04
Paulared	0	0	0	0	0	0	0	0	0	100	0	0	0	105	0	0	0	0	0	0	205	0.40
Vista Bella	0	2	0	0	0	16	0	0	0	0	0	0	0	120	0	0	0	0	0	0	138	0.27
Other Early Cultivars	0	0	0	0	0	70	0	0	0	183	0	0	77	85	0	0	0	101	0	0	516	0.99
Total Early Cultivars	0	21	0	0	0	96	0	0	0	430	0	0	77	548	0	0	40	131	0	0	1,343	2.59
Cortland	0	244	0	0	0	13	0	0	0	117	353	0	113	686	0	0	31	331	0	0	1,888	3.64
Golden Delicious	0	140	0	0	0	208	0	0	0	335	0	0	14	598	0	0	0	720	0	0	2,013	3.88
Golden Russet	0	16	0	0	0	3	0	0	0	1	0	0	103	55	0	0	0	0	0	0	178	0.34
Empire	0	80	0	0	0	6	0	0	0	2	0	0	75	148	0	0	0	80	0	0	391	0.75
Idared	24	98	0	0	0	9	0	0	0	2,130	214	0	130	2,604	0	0	0	1,163	0	0	6,372	12.28
McIntosh	0	24	0	0	200	0	0	0	10	84	0	0	1,347	10,303	0	0	3,793	2,837	0	0	18,598	35.84
Mutsu or Crispin	0	94	0	0	205	0	0	0	0	0	0	0	65	566	0	0	0	154	0	0	1,084	2.09
Northern Spy	0	22	0	0	0	19	0	0	62	360	0	0	1,198	6,122	0	0	657	358	141	0	8,939	17.22
Red Delicious	0	128	0	0	0	247	0	0	0	316	0	0	455	4,551	0	0	1,116	2,250	0	0	9,063	17.46
R.I. Greening	0	0	0	0	0	4	0	0	0	0	0	0	0	273	0	0	29	0	0	0	306	0.59
Spartan	0	11	0	0	0	75	0	0	0	40	0	0	40	352	0	0	0	0	0	0	518	1.00
Other Late Cultivars	0	55	0	0	0	159	0	0	0	3	0	250	0	638	0	0	13	85	0	0	1,203	2.32
Total Late Cultivars	24	912	0	0	405	741	0	0	72	3,388	567	250	3,540	26,896	0	0	5,639	7,978	141	0	50,553	97.41
Total	24	933	0	0	405	837	0	0	72	3,818	567	250	3,617	27,444	0	0	5,679	8,109	141	0	51,896	100.00
Age Group / Planting Density as % of Total	0.05	1.80	0.00	0.00	0.78	1.61	0.00	0.00	0.14	7.36	1.09	0.48	6.97	52.88	0.00	0.00	10.94	15.63	0.27	0.00	100.00	

Table 31 - Apple Trees on M7 Rootstock by Cultivar, Age Group and Density of Planting, Ontario, 1990

Cultivar	1 to 5 Years Planting Density (Trees/Acre)				6 to 10 Years Planting Density (Trees/Acre)				11 to 16 Years Planting Density (Trees/Acre)				17 to 30 Years Planting Density (Trees/Acre)				31 Years & Over Planting Density (Trees/Acre)				Cultivar as % of Total	
	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	Total	Total
Early McIntosh	0	238	0	0	46	0	0	0	28	421	169	0	2	1,077	0	0	20	350	0	0	2,351	0.54
Jerseymac	13	533	871	350	2	1,540	0	0	4	300	0	0	0	24	0	0	0	0	0	0	3,637	0.83
Paulared	6	536	195	31	0	2,108	37	0	0	581	676	0	0	652	0	0	0	0	0	0	4,822	1.10
Vista Bella	13	300	286	0	21	583	348	0	30	457	55	0	0	156	0	0	0	0	0	0	2,249	0.51
Other Early Cultivars	0	383	222	0	157	675	5	144	29	1,199	21	260	213	2,966	29	0	0	184	0	0	6,487	1.48
Total Early Cultivars	32	1,990	1,574	381	226	4,906	390	144	91	2,958	921	260	215	4,875	29	0	20	534	0	0	19,546	4.46
Cortland	30	3,606	0	1,193	33	3,461	706	1,647	173	1,369	0	0	341	1,866	577	0	0	198	0	0	15,200	3.46
Golden Delicious	170	2,930	841	1,818	0	4,981	2,509	1,700	111	2,522	2,000	0	407	7,111	191	0	112	135	0	0	27,538	6.27
Golden Russet	35	1,632	0	0	0	623	676	0	2	354	154	114	52	462	32	0	0	260	0	0	4,396	1.00
Empire	245	21,378	7,787	287	0	18,546	1,688	1,365	105	2,611	359	0	0	1,355	0	0	0	0	0	0	55,726	12.69
Idared	213	3,947	2,525	90	402	17,503	3,688	1,601	113	4,501	2,556	0	313	2,524	0	5,674	0	386	0	0	46,038	10.48
McIntosh	189	12,226	4,867	2,246	653	16,686	10,315	1,647	1,921	10,181	1,476	0	1,936	43,802	70	410	0	4,381	0	960	113,968	25.96
Mutsu or Crispin	388	6,039	544	0	145	5,620	489	0	232	2,742	38	0	983	4,326	244	0	0	0	0	0	21,790	4.96
Northern Spy	324	5,006	7,348	0	92	4,345	346	81	266	2,049	147	467	1,061	7,565	5,552	0	0	3,140	0	0	37,789	8.61
Red Delicious	217	16,086	4,503	384	98	11,317	969	0	176	9,852	1,814	0	970	23,448	629	706	543	3,594	0	0	75,306	17.15
R.I. Greening	0	103	0	0	112	49	0	0	0	8	0	0	0	127	0	0	0	0	0	0	399	0.09
Spartan	133	1,215	650	0	141	1,715	0	0	126	2,917	1,263	247	246	4,043	0	39	0	0	0	0	12,755	2.91
Other Late Cultivars	57	3,691	0	77	21	1,984	107	43	12	633	0	604	59	1,092	41	0	0	124	0	0	8,545	1.95
Total Late Cultivars	2,001	77,859	29,065	6,095	1,697	86,832	21,493	8,084	3,237	39,739	9,827	1,432	6,368	97,721	7,336	6,829	655	12,220	0	960	419,450	95.54
Total	2,033	79,849	30,639	6,476	1,923	91,738	21,883	8,228	3,328	42,697	10,748	1,692	6,583	102,596	7,365	6,829	675	12,754	0	960	438,996	100.00
Age Group / Planting Density % of Total	0.46	18.19	6.98	1.47	0.44	20.90	4.98	1.87	0.76	9.73	2.45	0.39	1.50	23.37	1.68	1.56	0.15	2.90	0.00	0.22	100.00	

Table 32 - Apple Trees on M9 Rootstock by Cultivar, Age Group and Density of Planting, Ontario, 1990

Cultivar	1 to 5 Years Planting Density (Trees/Acre)				6 to 10 Years Planting Density (Trees/Acre)				11 to 16 Years Planting Density (Trees/Acre)				17 to 30 Years Planting Density (Trees/Acre)				31 Years & Over Planting Density (Trees/Acre)				Cultivar as % of Total	
	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	Total	Total
Early McIntosh	9	14	0	88	0	526	0	0	0	0	249	0	0	182	0	0	18	0	0	0	1,086	0.26
Jerseymac	0	0	643	685	0	100	30	0	0	225	0	0	0	0	0	0	0	0	0	0	1,683	0.41
Paulared	0	66	177	532	8	0	981	0	0	151	302	0	0	90	0	0	0	0	0	0	2,307	0.56
Vista Bella	0	0	209	659	0	54	0	155	0	0	435	0	0	0	0	0	0	0	0	0	1,512	0.36
Other Early Cultivars	0	0	1,609	115	0	0	0	115	0	520	58	242	0	0	370	95	0	0	0	0	3,124	0.75
Total Early Cultivars	9	80	2,638	2,079	8	680	1,011	270	0	896	1,044	242	0	272	370	95	18	0	0	0	9,712	2.34
Cortland	129	460	366	1,125	0	1,095	2,063	427	144	378	36	0	0	104	756	0	0	0	15	0	7,118	1.71
Golden Delicious	1	112	1,098	13,224	144	2,906	466	4,312	8	299	1,324	47	145	450	693	28	0	208	0	0	25,485	6.12
Golden Russet	0	0	2,429	1,247	0	0	0	102	26	0	0	219	0	0	607	20	5	0	0	0	4,655	1.12
Empire	16	1,581	3,895	33,869	71	1,430	836	8,939	0	140	1,428	6,142	1	0	412	0	0	0	7	0	58,787	14.14
Idared	66	223	2,175	10,166	231	350	2,512	14,887	153	700	3,748	3,063	46	0	82	116	0	0	18	0	38,536	9.27
McIntosh	0	575	5,414	39,147	0	1,379	1,912	19,729	141	569	893	12,258	49	2,237	9,534	5,575	0	100	2,133	204	101,849	24.50
Mutsu or Crispin	0	461	1,761	16,877	0	2,477	0	728	0	304	0	576	0	0	504	0	0	0	18	0	23,706	5.70
Northern Spy	1	917	71	3,596	0	1,782	697	533	72	11	1,055	9,848	3	849	2,210	1,105	13	0	546	0	23,309	5.61
Red Delicious	20	437	801	25,818	16	1,962	1,609	9,857	36	310	5,219	15,085	37	2,222	8,479	9,824	0	0	213	2,843	84,788	20.40
R.I. Greening	0	0	175	0	0	0	0	1	0	0	0	6	0	0	11	0	0	0	0	0	193	0.05
Spartan	701	493	0	1,181	0	1,210	417	2,083	163	118	857	2,058	0	0	2,200	0	0	0	8	0	11,489	2.76
Other Late Cultivars	0	0	3,959	20,102	0	0	0	801	0	0	0	35	0	0	1,200	0	0	0	0	0	26,097	6.28
Total Late Cultivars	934	5,259	22,164	166,372	462	14,591	10,512	62,399	743	2,829	14,560	49,337	281	5,862	26,688	16,668	18	308	2,956	3,047	405,992	97.66
Total	943	5,339	24,802	168,451	470	15,271	11,523	62,669	743	3,725	15,604	49,579	281	6,134	27,058	16,763	36	308	2,958	3,047	415,704	100.00
Age Group / Planting Density as % of Total	0.23	1.28	5.97	40.52	0.11	3.67	2.77	15.08	0.18	0.90	3.75	11.93	0.07	1.48	6.51	4.03	0.01	0.07	0.71	0.73	100.00	

Table 33 - Apple Trees on M26 Rootstock by Cultivar, Age Group and Density of Planting, Ontario, 1990

Cultivar	1 to 5 Years Planting Density (Trees/Acre)				6 to 10 Years Planting Density (Trees/Acre)				11 to 16 Years Planting Density (Trees/Acre)				17 to 30 Years Planting Density (Trees/Acre)				31 Years & Over Planting Density (Trees/Acre)				Total	Cultivar as % of Total
	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+		
Early McIntosh	0	45	1,141	869	0	1,634	3,038	122	196	11	358	223	0	0	0	1,418	14	0	0	0	9,069	0.59
Jerseymac	212	3,426	7,815	70	140	6,534	3,187	1,436	16	1,942	7,179	42	0	33	371	128	0	0	0	0	32,531	2.12
Paulared	11	4,279	6,162	1,040	87	2,943	8,520	1,295	8	1,715	9,506	863	0	270	0	0	0	0	0	0	36,699	2.39
Vista Bella	35	1,240	2,262	686	32	3,133	4,570	142	0	972	3,117	278	0	0	1,486	0	2	0	0	0	17,955	1.17
Other Early Cultivars	0	295	2,243	362	62	3,771	2,470	396	0	734	3,244	0	0	226	317	253	30	0	0	0	14,403	0.94
Total Early Cultivars	258	9,285	19,623	3,027	321	18,015	21,785	3,391	220	5,374	23,404	1,406	0	529	2,174	1,799	46	0	0	0	110,657	7.21
Cortland	30	3,298	16,291	2,240	78	8,356	9,995	2,837	6	2,427	6,283	998	45	2,428	0	79	42	0	0	0	55,433	3.61
Golden Delicious	122	11,373	27,649	891	75	6,710	32,011	4,432	0	4,806	9,794	4,643	8	1,901	403	411	0	405	0	0	105,634	6.88
Golden Russet	26	725	4,354	4,168	125	1,187	2,138	41	53	1,461	3,616	65	89	272	0	13	203	0	0	0	18,536	1.21
Empire	269	22,298	71,142	6,421	66	11,143	39,519	12,528	112	8,425	23,019	2,831	0	1,335	1,121	9	4	0	0	0	200,242	13.04
Idared	130	7,727	20,216	3,529	188	11,132	27,818	4,309	12	8,310	24,842	5,645	0	1,061	0	0	10	0	0	0	114,929	7.49
McIntosh	363	40,936	95,044	17,561	294	36,700	65,818	21,586	70	16,803	48,438	4,479	176	9,157	5,684	5,455	0	303	65	0	368,934	24.04
Mutsu or Crispin	743	7,244	24,503	2,460	147	7,269	11,981	2,623	67	5,803	13,256	2,097	2	341	802	0	0	0	0	0	79,338	5.17
Northern Spy	352	24,438	33,208	2,553	79	24,958	14,970	2,826	327	7,367	23,526	719	1	7,831	194	240	615	0	0	226	144,430	9.41
Red Delicious	302	18,059	41,963	10,849	589	21,930	40,236	7,166	2	21,124	54,031	8,566	49	9,019	5,930	546	84	0	0	0	240,445	15.66
R.I. Greening	0	0	13	0	0	82	84	0	0	0	42	0	0	162	0	0	0	17	0	0	400	0.03
Spartan	1,208	5,098	8,079	174	108	5,780	16,536	4,299	0	4,817	19,938	4,030	71	1,481	1,640	2,094	1	0	0	0	75,354	4.91
Other Late Cultivars	221	1,470	8,671	213	110	1,574	2,777	663	112	1,364	877	0	0	2,368	0	0	0	0	175	0	20,595	1.34
Total Late Cultivars	3,766	142,668	351,133	51,059	1,859	136,821	263,883	63,310	761	82,707	227,662	34,073	441	37,356	15,774	8,847	959	725	240	226	1,424,270	92.79
Total	4,024	151,953	370,756	54,086	2,180	154,836	285,668	66,701	981	88,081	251,066	35,479	441	37,885	17,948	10,646	1,005	725	240	226	1,534,927	100.00
Age Group / Planting Density as % of Total	0.26	9.90	24.15	3.52	0.14	10.09	18.61	4.35	0.06	5.74	16.36	2.31	0.03	2.47	1.17	0.69	0.07	0.05	0.02	0.01	100.00	

Table 34 - Apple Trees on MM106 Rootstock by Cultivar, Age Group and Density of Planting, Ontario, 1990

Cultivar	1 to 5 Years Planting Density (Trees/Acre)				6 to 10 Years Planting Density (Trees/Acre)				11 to 16 Years Planting Density (Trees/Acre)				17 to 30 Years Planting Density (Trees/Acre)				31 Years & Over Planting Density (Trees/Acre)				Total	Cultivar as % of Total
	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+		
Early McIntosh	4	2,526	0	326	82	242	0	0	0	488	0	0	167	504	747	0	117	0	0	0	5,207	0.51
Jerseymac	116	3,266	2,013	438	54	5,046	615	183	0	2,517	1,411	116	0	538	0	0	0	0	0	0	16,313	1.61
Paulared	0	1,792	1,060	0	369	4,535	454	0	0	3,703	1,049	851	11	894	329	0	7	0	0	0	15,074	1.48
Vista Bella	0	719	84	0	90	1,810	78	0	19	938	0	0	0	365	0	0	0	0	0	0	4,101	0.40
Other Early Cultivars	277	511	132	0	14	1,906	56	49	0	2,546	350	10	192	3,518	0	0	204	0	0	0	9,767	0.96
Total Early Cultivars	397	8,816	3,309	766	609	13,541	1,201	232	19	10,192	2,810	977	370	5,819	1,076	0	328	0	0	0	50,462	4.96
Cortland	10	2,015	3,469	104	42	2,932	110	78	20	1,412	129	0	3	835	0	592	0	0	0	0	11,751	1.15
Golden Delicious	13	5,118	1,630	0	22	6,859	1,634	784	0	3,810	560	0	111	6,326	623	0	30	98	0	0	27,818	2.71
Golden Russet	78	758	1,247	0	0	1,647	57	0	52	859	80	0	17	336	238	0	0	0	0	0	5,369	0.53
Empire	202	29,298	19,334	404	145	28,843	3,260	0	2	15,640	1,705	0	5	1,800	294	406	0	0	0	0	101,196	9.95
Idared	62	14,240	11,937	617	98	42,420	26,147	1,767	12	24,435	12,246	2,922	0	7,109	3,037	37	0	0	0	0	147,086	14.45
McIntosh	718	60,417	47,366	241	1,030	65,523	47,170	4,393	1,864	38,262	18,842	8,138	2,254	33,655	8,295	5,141	78	393	0	0	343,780	33.79
Mutsu or Crispin	0	5,523	4,518	0	0	5,118	994	744	34	3,000	0	0	149	1,561	0	0	0	0	0	0	21,641	2.13
Northern Spy	0	10,834	1,387	0	266	8,347	377	27	142	9,926	1,260	0	782	13,451	2,508	423	0	349	0	0	50,119	4.93
Red Delicious	64	21,670	27,997	1,053	68	33,731	27,852	2,782	899	30,153	2,076	1,840	156	32,915	19,712	710	104	0	0	0	203,782	20.03
R.I. Greening	0	150	0	0	0	390	0	0	0	29	0	0	0	540	0	0	0	240	0	0	1,349	0.13
Spartan	47	3,630	1,315	0	1,120	5,057	3,161	31	66	5,476	2,937	0	209	4,880	3,713	0	0	200	0	0	31,862	3.13
Other Late Cultivars	17	620	8,495	16	43	3,474	4,152	0	41	1,026	770	0	264	2,168	0	82	0	320	0	0	21,486	2.11
Total Late Cultivars	1,211	154,273	126,695	2,495	2,854	204,341	114,914	10,606	3,152	134,028	40,625	12,900	3,950	105,374	38,420	7,391	212	1,600	0	0	967,041	95.04
Total	1,608	163,089	132,004	3,261	3,463	217,882	116,115	10,838	3,171	144,220	43,435	13,877	4,320	111,193	39,496	7,391	540	1,600	0	0	1,017,503	100.00
Age Group / Planting Density % of Total	0.16	16.03	12.97	0.32	0.34	21.41	11.41	1.07	0.31	14.17	4.27	1.36	0.43	10.93	3.88	0.73	0.05	0.16	0.00	0.00	100.00	

Table 35 - Apple Trees on MM111 Rootstock by Cultivar, Age Group and Density of Planting, Ontario, 1990

Cultivar	1 to 5 Years Planting Density (Trees/Acre)				6 to 10 Years Planting Density (Trees/Acre)				11 to 16 Years Planting Density (Trees/Acre)				17 to 30 Years Planting Density (Trees/Acre)				31 Years & Over Planting Density (Trees/Acre)				Total	Cultivar as % of Total
	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+		
Early McIntosh	0	8	0	525	0	35	346	0	0	27	0	0	190	0	0	0	0	0	0	0	1,131	0.63
Jerseymac	0	26	0	0	0	947	0	0	0	0	310	0	0	135	0	0	0	0	0	0	1,418	0.79
Paulared	30	238	420	16	139	2,100	0	0	0	314	0	113	0	367	0	0	0	0	0	0	3,737	2.09
Vista Bella	0	37	0	0	58	257	0	0	0	188	0	0	0	24	0	0	0	0	0	0	564	0.31
Other Early Cultivars	19	486	0	0	0	1,681	0	0	0	317	0	0	0	568	0	0	0	104	0	0	3,175	1.78
Total Early Cultivars	49	795	420	541	197	5,020	346	0	0	846	310	113	190	1,094	0	0	0	104	0	0	10,025	5.60
Cortland	0	473	0	0	260	1,543	74	0	21	1,040	0	0	0	103	0	0	0	123	0	0	3,637	2.03
Golden Delicious	0	648	0	4,218	95	5,077	355	56	0	1,583	0	0	60	4,279	103	0	0	11	0	0	16,485	9.22
Golden Russet	0	262	0	58	0	644	0	0	0	85	94	0	17	268	0	0	0	3	0	0	1,451	0.81
Empire	31	4,103	1,783	130	306	8,614	0	0	0	2,592	0	0	0	467	0	0	0	0	0	0	18,026	10.08
Idared	0	4,058	455	0	134	7,376	476	0	153	4,302	0	0	0	5,008	0	401	0	0	0	0	22,363	12.50
McIntosh	10	5,178	3,215	0	105	23,310	1,221	0	67	8,428	0	0	277	4,306	397	0	446	593	0	0	47,553	26.59
Mutsu or Crispin	0	300	323	0	0	929	44	0	122	999	0	61	0	61	0	0	0	0	0	0	2,839	1.59
Northern Spy	0	607	16	0	121	1,320	144	0	0	406	0	0	592	2,377	0	0	0	376	0	0	5,959	3.33
Red Delicious	29	7,153	2,726	1,003	197	10,601	1,366	0	365	5,721	1,592	253	124	8,762	1,167	130	81	261	0	0	41,531	23.22
R.I. Greening	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	15	0	0	19	0.01
Spartan	0	306	0	0	208	1,203	1,231	0	0	2,639	0	0	0	543	0	0	0	0	0	0	6,128	3.43
Other Late Cultivars	0	1,189	0	0	0	1,052	0	0	0	424	0	0	0	175	0	0	6	0	0	0	2,846	1.59
Total Late Cultivars	70	24,277	8,518	5,409	1,424	61,669	4,911	56	728	28,219	1,686	314	1,070	26,373	1,667	531	533	1,382	0	0	168,837	94.40
Total	119	25,072	8,938	5,950	1,621	66,689	5,257	56	728	29,065	1,996	427	1,260	27,467	1,667	531	533	1,486	0	0	178,862	100.00
Age Group / Planting Density as % of Total	0.07	14.02	5.00	3.33	0.90	37.28	2.94	0.03	0.41	16.25	1.11	0.24	0.70	15.36	0.93	0.30	0.30	0.83	0.00	0.00	100.00	

Table 36 - Apple Trees on Other Rootstocks by Cultivar, Age Group and Density of Planting, Ontario, 1990

Cultivar	1 to 5 Years Planting Density (Trees/Acre)				6 to 10 Years Planting Density (Trees/Acre)				11 to 16 Years Planting Density (Trees/Acre)				17 to 30 Years Planting Density (Trees/Acre)				31 Years & Over Planting Density (Trees/Acre)				Total	Cultivar as % of Total
	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+	1-60	61-200	201-350	351+		
Early McIntosh	12	0	96	0	0	41	0	0	0	0	3	0	90	268	0	0	0	40	0	0	550	0.58
Jerseymac	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0.03
Paulared	0	71	0	0	0	134	26	0	0	300	195	0	0	0	0	0	0	0	0	0	726	0.76
Vista Bella	0	0	7	0	0	60	0	0	0	74	0	0	12	67	0	0	23	0	0	0	243	0.25
Other Early Cultivars	34	2,556	0	0	26	774	272	182	781	371	1,360	0	392	2,616	0	0	166	339	0	0	9,871	10.32
Total Early Cultivars	46	2,627	103	0	26	1,039	298	182	781	745	1,558	0	494	2,951	0	0	189	379	0	0	11,420	11.94
Cortland	0	0	304	0	0	81	39	258	0	225	0	0	154	0	0	0	38	0	0	0	1,099	1.15
Golden Delicious	0	0	854	927	0	0	347	0	152	819	0	0	0	2,177	0	0	0	77	0	0	5,353	5.59
Golden Russet	0	0	14	0	0	1	0	0	0	0	0	0	120	0	0	0	21	0	0	0	156	0.16
Empire	0	21	0	54	0	726	200	104	0	440	1,755	0	0	16	0	0	0	0	0	0	3,316	3.47
Idared	0	268	38	127	0	45	430	0	0	1,029	1,043	0	134	205	0	0	0	0	59	0	3,398	3.55
McIntosh	19	982	835	1,285	0	1,517	2,062	63	21	8,571	930	0	822	7,597	0	218	2,430	271	0	0	27,803	28.85
Mutsu or Crispin	0	0	79	0	0	144	0	0	0	817	0	0	0	30	0	0	520	0	0	0	1,590	1.66
Northern Spy	0	343	2,164	433	0	339	148	0	0	252	0	0	1,303	4,489	71	0	1,468	85	0	0	11,095	11.60
Red Delicious	0	42	584	0	0	749	554	0	270	6,041	2,434	0	742	9,047	0	0	236	108	0	0	20,817	21.76
R.I. Greening	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	20	0.02
Spartan	0	92	0	0	0	19	0	0	35	69	0	0	0	38	0	0	8	0	0	0	261	0.27
Other Late Cultivars	163	125	1,846	1,315	114	825	1,139	857	65	568	0	105	813	622	0	0	868	126	0	0	9,551	9.98
Total Late Cultivars	182	1,873	6,728	4,141	114	4,446	4,919	1,282	543	18,831	6,162	105	4,088	24,221	71	218	5,609	667	59	0	84,259	88.06
Total	228	4,500	6,831	4,141	142	5,485	5,217	1,464	1,324	19,576	7,720	105	4,582	27,172	71	218	5,798	1,046	59	0	95,679	100.00
Age Group / Planting Density % of Total	0.24	4.70	7.14	4.33	0.15	5.73	5.45	1.53	1.38	20.46	8.07	0.11	4.79	28.40	0.08	0.23	6.06	1.09	0.06	0.00	100.00	

Table 37 - Apple Trees on M7 Rootstock by Cultivar and Age Group, St. Lawrence Valley District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Jerseymac	80	0	0	0	0	80	10.73
Vista Bella	10	0	0	0	0	10	1.34
Other Early Cultivars	0	0	112	0	0	112	15.01
Total Early Cultivars	90	0	112	0	0	202	27.08
Cortland	0	270	0	0	0	270	36.19
Idared	0	0	2	0	0	2	0.27
McIntosh	0	0	2	240	0	242	32.44
Spartan	0	5	0	0	0	5	0.67
Other Late Cultivars	25	0	0	0	0	25	3.35
Total Late Cultivars	25	275	4	240	0	544	72.92
Total	115	275	116	240	0	746	100.00
Age Group as % of Total	15.42	36.86	15.55	32.17	0.00	100.00	

Table 38 - Apple Trees on M26 Rootstock by Cultivar and Age Group, St. Lawrence Valley District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	30	1,350	0	0	0	1,380	4.61
Jerseymac	101	856	0	0	0	957	3.20
Paulared	245	1,233	0	0	0	1,478	4.93
Vista Bella	110	328	0	0	0	438	1.46
Other Early Cultivars	108	568	50	0	24	750	2.50
Total Early Cultivars	594	4,335	50	0	24	5,003	16.70
Cortland	3,132	3,075	20	0	0	6,227	20.78
Golden Delicious	10	0	0	0	0	10	0.03
Golden Russet	20	30	0	0	0	50	0.17
Empire	22	5,217	0	0	0	5,239	17.48
Idared	0	118	1	0	0	119	0.40
McIntosh	4,317	4,503	3	0	0	8,823	29.45
Northern Spy	41	20	0	0	0	61	0.20
Red Delicious	49	80	0	0	0	129	0.43
Spartan	1,280	1,814	0	0	0	3,094	10.33
Other Late Cultivars	442	595	0	0	170	1,207	4.03
Total Late Cultivars	9,313	15,452	24	0	170	24,959	83.30
Total	9,907	19,787	74	0	194	29,962	100.00
Age Group as % of Total	33.06	66.04	0.25	0.00	0.65	100.00	

Table 39 - Apple Trees on MM106 Rootstock by Cultivar and Age Group, St. Lawrence Valley District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	603	0	0	0	0	603	8.49
Jerseymac	220	50	0	0	0	270	3.80
Paulared	0	75	0	0	7	82	1.15
Vista Bella	200	0	0	0	0	200	2.82
Other Early Cultivars	0	50	0	0	0	50	0.70
Total Early Cultivars	1,023	175	0	0	7	1,205	16.96
Cortland	100	175	0	0	0	275	3.87
Golden Russet	0	124	0	0	0	124	1.74
Empire	240	190	160	0	0	590	8.30
Idared	0	50	3	0	0	53	0.75
McIntosh	3,035	1,090	0	0	0	4,125	58.05
Mutsu or Crispin	25	0	0	0	0	25	0.35
Northern Spy	0	15	0	0	0	15	0.21
R.I. Greening	30	0	0	0	0	30	0.42
Spartan	542	15	7	0	0	564	7.94
Other Late Cultivars	100	0	0	0	0	100	1.41
Total Late Cultivars	4,072	1,659	170	0	0	5,901	83.04
Total	5,095	1,834	170	0	7	7,106	100.00
Age Group as % of Total	71.70	25.81	2.39	0.00	0.10	100.00	

Table 40 - Apple Trees on MM111 Rootstock by Cultivar and Age Group, St. Lawrence Valley District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	515	275	10	0	0	800	2.46
Jerseymac	24	149	150	0	0	323	1.00
Paulared	159	964	110	0	0	1,233	3.80
Vista Bella	37	174	100	0	0	311	0.96
Other Early Cultivars	85	283	0	0	0	368	1.13
Total Early Cultivars	820	1,845	370	0	0	3,035	9.35
Cortland	311	1,002	670	0	0	1,983	6.11
Golden Russet	94	418	0	0	0	512	1.58
Empire	243	1,921	550	0	0	2,714	8.36
Idared	16	1,417	2	0	0	1,435	4.42
McIntosh	865	13,549	4,054	0	0	18,468	56.91
Northern Spy	0	100	0	0	0	100	0.31
Red Delicious	0	300	0	0	0	300	0.93
Spartan	126	2,296	1,102	0	0	3,524	10.86
Other Late Cultivars	127	254	0	0	0	381	1.17
Total Late Cultivars	1,782	21,257	6,378	0	0	29,417	90.65
Total	2,602	23,102	6,748	0	0	32,452	100.00
Age Group as % of Total	8.02	71.19	20.79	0.00	0.00	100.00	

Table 41 - Apple Trees on Other* Rootstocks by Cultivar and Age Group, St. Lawrence Valley District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	50	0	0	0	0	50	3.73
Paulared	1	0	0	0	0	1	0.07
Vista Bella	1	0	0	0	0	1	0.07
Other Early Cultivars	24	138	3	37	7	209	15.56
Total Early Cultivars	76	138	3	37	7	261	19.43
Cortland	0	30	0	26	0	56	4.17
Empire	0	16	0	0	0	16	1.19
Idared	0	0	2	0	0	2	0.15
McIntosh	0	27	22	367	10	426	31.72
Spartan	0	16	0	0	0	16	1.19
Other Late Cultivars	34	332	6	115	79	566	42.15
Total Late Cultivars	34	421	30	508	89	1,082	80.57
Total	110	559	33	545	96	1,343	100.00
Age Group as % of Total	8.19	41.62	2.46	40.58	7.15	100.00	

* Does not include 3 trees on M2 and 1,661 trees on M9 rootstocks

Table 42 - Apple Trees on M2 Rootstock by Cultivar and Age Group, Eastern Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Other Early Cultivars	0	0	0	60	75	135	4.58
Total Early Cultivars	0	0	0	60	75	135	4.58
Cortland	0	0	0	75	50	125	4.24
McIntosh	0	0	0	1,750	325	2,075	70.44
Northern Spy	0	0	0	48	1	49	1.66
Red Delicious	0	0	0	218	58	276	9.37
Spartan	0	0	0	36	0	36	1.22
Other Late Cultivars	0	0	250	0	0	250	8.49
Total Late Cultivars	0	0	250	2,127	434	2,811	95.42
Total	0	0	250	2,187	509	2,946	100.00
Age Group as % of Total	0.00	0.00	8.48	74.24	17.28	100.00	

Table 43 - Apple Trees on M7 Rootstock by Cultivar and Age Group, Eastern Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	150	10	6	6	20	192	0.44
Paulared	152	1,104	100	0	0	1,356	3.11
Vista Bella	0	0	0	50	0	50	0.12
Other Early Cultivars	0	158	25	168	184	535	1.23
Total Early Cultivars	302	1,272	131	224	204	2,133	4.90
Cortland	60	428	195	160	85	928	2.13
Golden Delicious	177	237	219	0	0	633	1.45
Golden Russet	383	130	3	0	50	566	1.30
Empire	783	3,758	219	0	0	4,760	10.93
Idared	350	739	0	0	0	1,089	2.50
McIntosh	2,596	3,518	3,010	7,671	2,257	19,052	43.76
Mutsu or Crispin	90	156	15	0	0	261	0.60
Northern Spy	60	608	270	1,130	1,607	3,675	8.44
Red Delicious	792	1,944	1,615	1,479	1,822	7,652	17.57
Spartan	183	259	847	492	0	1,781	4.09
Other Late Cultivars	12	20	982	0	0	1,014	2.33
Total Late Cultivars	5,486	11,797	7,375	10,932	5,821	41,411	95.10
Total	5,788	13,069	7,506	11,156	6,025	43,544	100.00
Age Group as % of Total	13.29	30.01	17.24	25.62	13.84	100.00	

Table 44 - Apple Trees on M9 Rootstock by Cultivar and Age Group, Eastern Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	0	2	0	0	1	3	0.01
Jerseymac	132	0	0	0	0	132	0.60
Paulared	30	91	300	0	0	421	1.90
Vista Bella	0	0	395	0	0	395	1.78
Other Early Cultivars	0	0	270	0	0	270	1.22
Total Early Cultivars	162	93	965	0	1	1,221	5.51
Cortland	0	93	10	6	0	109	0.49
Golden Delicious	67	355	0	0	0	422	1.90
Golden Russet	82	0	100	0	0	182	0.82
Empire	5,056	140	620	27	0	5,843	26.35
Idared	1,761	1,384	52	40	0	3,237	14.60
McIntosh	1,936	605	1,357	842	36	4,776	21.53
Mutsu or Crispin	133	0	0	0	0	133	0.60
Northern Spy	0	0	2,334	1,035	0	3,369	15.19
Red Delicious	380	25	204	755	0	1,364	6.15
R.I. Greening	0	0	5	0	0	5	0.02
Spartan	130	432	181	0	0	743	3.35
Other Late Cultivars	775	0	0	0	0	775	3.49
Total Late Cultivars	10,320	3,034	4,863	2,705	36	20,958	94.49
Total	10,482	3,127	5,828	2,705	37	22,179	100.00
Age Group as % of Total	47.26	14.10	26.28	12.19	0.17	100.00	

Table 45 - Apple Trees on M26 Rootstock by Cultivar and Age Group, Eastern Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	1,100	1,510	0	90	0	2,700	0.73
Jerseymac	1,796	1,469	1,374	128	0	4,767	1.28
Paulared	5,352	3,890	6,624	0	0	15,866	4.28
Vista Bella	312	2,065	646	0	0	3,023	0.81
Other Early Cultivars	254	1,474	1,461	528	0	3,717	1.00
Total Early Cultivars	8,814	10,408	10,105	746	0	30,073	8.10
Cortland	4,645	5,791	1,604	1,836	0	13,876	3.74
Golden Delicious	1,654	1,517	436	180	0	3,787	1.02
Golden Russet	5,306	631	2,662	232	0	8,831	2.38
Empire	17,904	18,099	9,676	38	0	45,717	12.32
Idared	5,652	8,600	12,528	331	0	27,111	7.31
McIntosh	34,398	49,783	29,798	11,033	164	125,176	33.73
Mutsu or Crispin	4,559	1,227	1,632	40	0	7,458	2.01
Northern Spy	7,048	9,065	6,008	675	6	22,802	6.14
Red Delicious	12,309	22,738	16,890	7,052	4	58,993	15.90
R.I. Greening	0	30	0	10	0	40	0.01
Spartan	1,194	9,848	9,862	2,779	0	23,683	6.38
Other Late Cultivars	1,245	1,217	30	1,058	0	3,550	0.96
Total Late Cultivars	95,914	128,546	91,126	25,264	174	341,024	91.90
Total	104,728	138,954	101,231	26,010	174	371,097	100.00
Age Group as % of Total	28.22	37.44	27.28	7.01	0.05	100.00	

Table 46 - Apple Trees on MM106 Rootstock by Cultivar and Age Group, Eastern Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	0	154	0	0	0	154	0.10
Jerseymac	1,460	446	358	0	0	2,264	1.42
Paulared	561	2,451	1,865	11	0	4,888	3.07
Vista Bella	20	314	161	0	0	495	0.31
Other Early Cultivars	295	939	576	424	0	2,234	1.41
Total Early Cultivars	2,336	4,304	2,960	435	0	10,035	6.31
Cortland	550	763	511	12	0	1,836	1.15
Golden Delicious	3,245	563	15	223	0	4,046	2.54
Golden Russet	423	403	241	228	0	1,295	0.81
Empire	3,293	5,791	1,615	400	0	11,099	6.98
Idared	5,503	8,578	11,069	1,198	0	26,348	16.56
McIntosh	20,552	16,431	6,923	12,599	0	56,505	35.51
Mutsu or Crispin	857	326	17	35	0	1,235	0.78
Northern Spy	2,644	1,600	1,540	416	0	6,200	3.90
Red Delicious	8,999	18,885	5,150	3,093	0	36,127	22.71
R.I. Greening	70	89	0	0	0	159	0.10
Spartan	487	1,375	1,242	486	0	3,590	2.26
Other Late Cultivars	213	313	95	0	0	621	0.39
Total Late Cultivars	46,836	55,117	28,418	18,690	0	149,061	93.69
Total	49,172	59,421	31,378	19,125	0	159,096	100.00
Age Group as % of Total	30.91	37.35	19.72	12.02	0.00	100.00	

Table 47 - Apple Trees on MM111 Rootstock by Cultivar and Age Group, Eastern Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	0	46	0	189	0	235	1.25
Jerseymac	2	0	0	0	0	2	0.01
Paulared	260	925	0	0	0	1,185	6.31
Other Early Cultivars	368	1,274	67	62	0	1,771	9.42
Total Early Cultivars	630	2,245	67	251	0	3,193	16.99
Cortland	35	2	70	0	0	107	0.57
Golden Delicious	2	150	0	160	0	312	1.66
Golden Russet	0	0	55	0	0	55	0.29
Empire	278	2,530	200	0	0	3,008	16.01
Idared	646	695	350	800	0	2,491	13.25
McIntosh	645	2,752	1,103	817	309	5,626	29.93
Mutsu or Crispin	0	142	0	0	0	142	0.76
Northern Spy	5	326	28	72	0	431	2.29
Red Delicious	250	334	1,368	916	224	3,092	16.45
Spartan	128	100	100	0	0	328	1.75
Other Late Cultivars	5	5	0	0	0	10	0.05
Total Late Cultivars	1,994	7,036	3,274	2,765	533	15,602	83.01
Total	2,624	9,281	3,341	3,016	533	18,795	100.00
Age Group as % of Total	13.96	49.38	17.78	16.05	2.83	100.00	

Table 48 - Apple Trees on Other Rootstocks by Cultivar and Age Group, Eastern Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	0	0	0	88	5	93	0.55
Paulared	0	160	300	0	0	460	2.72
Other Early Cultivars	62	311	1,509	78	82	2,042	12.05
Total Early Cultivars	62	471	1,809	166	87	2,595	15.32
Cortland	0	235	212	2	4	453	2.67
Golden Delicious	900	0	0	0	19	919	5.42
Golden Russet	0	1	0	95	14	110	0.65
Empire	0	704	0	0	0	704	4.16
Idared	92	387	1,000	0	55	1,534	9.05
McIntosh	197	2,405	880	1,742	632	5,856	34.56
Mutsu or Crispin	0	12	0	0	0	12	0.07
Northern Spy	1,753	2	0	140	40	1,935	11.42
Red Delicious	2	0	272	1,370	48	1,692	9.99
Spartan	50	2	0	20	0	72	0.43
Other Late Cultivars	466	439	15	10	131	1,061	6.26
Total Late Cultivars	3,460	4,187	2,379	3,379	943	14,348	84.68
Total	3,522	4,658	4,188	3,545	1,030	16,943	100.00
Age Group as % of Total	20.79	27.49	24.72	20.92	6.08	100.00	

Table 49 - Apple Trees on M2 Rootstock by Cultivar and Age Group, Georgian Bay District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	0	1	130	0	40	171	1.47
Jerseymac	0	1	0	0	0	1	0.01
Other Early Cultivars	0	0	0	79	0	79	0.68
Total Early Cultivars	0	2	130	79	40	251	2.16
Cortland	221	1	40	108	30	400	3.45
Golden Delicious	1	1	0	0	0	2	0.02
Empire	0	1	0	0	0	1	0.01
Idared	0	0	40	0	0	40	0.34
McIntosh	0	0	40	4,685	630	5,355	46.13
Northern Spy	0	0	60	4,410	295	4,765	41.05
Red Delicious	2	0	40	426	10	478	4.12
Spartan	1	0	40	40	0	81	0.70
Other Late Cultivars	0	0	0	160	75	235	2.02
Total Late Cultivars	225	3	260	9,829	1,040	11,357	97.84
Total	225	5	390	9,908	1,080	11,608	100.00
Age Group as % of Total	1.94	0.04	3.36	85.36	9.30	100.00	

Table 50 - Apple Trees on M7 Rootstock by Cultivar and Age Group, Georgian Bay District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	0	4	0	24	350	378	0.46
Jerseymac	1,061	889	4	0	0	1,954	2.38
Paulared	140	160	95	20	0	415	0.50
Vista Bella	40	75	30	0	0	145	0.18
Other Early Cultivars	0	0	80	1,010	0	1,090	1.32
Total Early Cultivars	1,241	1,128	209	1,054	350	3,982	4.84
Cortland	2,135	1,935	0	232	0	4,302	5.23
Golden Delicious	193	190	0	1,420	50	1,853	2.25
Golden Russet	4	0	2	122	200	328	0.40
Empire	1,852	2,151	0	80	0	4,083	4.97
Idared	4,673	4,037	2,570	10	0	11,290	13.74
McIntosh	6,016	10,727	2,163	8,127	801	27,834	33.87
Mutsu or Crispin	160	0	0	800	0	960	1.17
Northern Spy	9,247	1,559	1,626	6,509	150	19,091	23.23
Red Delicious	778	868	755	2,760	324	5,485	6.67
Spartan	600	1,060	375	265	0	2,300	2.80
Other Late Cultivars	202	20	3	456	0	681	0.83
Total Late Cultivars	25,860	22,547	7,494	20,781	1,525	78,207	95.16
Total	27,101	23,675	7,703	21,835	1,875	82,189	100.00
Age Group as % of Total	32.97	28.81	9.37	26.57	2.28	100.00	

Table 51 - Apple Trees on M9 Rootstock by Cultivar and Age Group, Georgian Bay District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	0	1	0	150	2	153	1.12
Jerseymac	0	0	100	0	0	100	0.73
Paulared	50	140	0	0	0	190	1.39
Other Early Cultivars	0	0	1	0	0	1	0.01
Total Early Cultivars	50	141	101	150	2	444	3.25
Cortland	70	146	157	96	0	469	3.43
Golden Delicious	0	141	10	10	0	161	1.18
Golden Russet	21	51	2	0	0	74	0.54
Empire	403	1	0	0	0	404	2.95
Idared	1	200	100	0	0	301	2.20
McIntosh	564	1,749	500	1,916	0	4,729	34.58
Mutsu or Crispin	1	19	0	0	0	20	0.15
Northern Spy	915	419	10	22	2	1,368	10.00
Red Delicious	50	79	0	5,380	0	5,509	40.29
Spartan	0	151	44	0	0	195	1.43
Total Late Cultivars	2,025	2,956	823	7,424	2	13,230	96.75
Total	2,075	3,097	924	7,574	4	13,674	100.00
Age Group as % of Total	15.17	22.65	6.76	55.39	0.03	100.00	

Table 52 - Apple Trees on M26 Rootstock by Cultivar and Age Group, Georgian Bay District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	4	207	239	1,328	0	1,778	0.57
Jerseymac	4,649	5,760	6,314	0	0	16,723	5.40
Paulared	1,980	566	18	0	0	2,564	0.83
Vista Bella	306	1,060	305	0	2	1,673	0.54
Other Early Cultivars	300	1,334	13	2	0	1,649	0.53
Total Early Cultivars	7,239	8,927	6,889	1,330	2	24,387	7.87
Cortland	2,754	3,399	246	0	1	6,400	2.07
Golden Delicious	309	631	308	602	0	1,850	0.60
Golden Russet	1,222	635	0	68	0	1,925	0.62
Empire	16,855	5,177	0	200	0	22,232	7.17
Idared	4,900	7,871	1,327	290	0	14,388	4.64
McIntosh	63,423	33,143	6,061	2,923	200	105,750	34.13
Mutsu or Crispin	30	387	10	0	0	427	0.14
Northern Spy	45,879	21,402	17,599	1,372	600	86,852	28.03
Red Delicious	4,882	3,892	12,703	565	0	22,042	7.11
R.I. Greening	0	25	0	0	0	25	0.01
Spartan	9,558	6,596	5,395	994	0	22,543	7.28
Other Late Cultivars	600	65	100	265	0	1,030	0.33
Total Late Cultivars	150,412	83,223	43,749	7,279	801	285,464	92.13
Total	157,651	92,150	50,638	8,609	803	309,851	100.00
Age Group as % of Total	50.88	29.74	16.34	2.78	0.26	100.00	

Table 53 - Apple Trees on MM106 Rootstock by Cultivar and Age Group, Georgian Bay District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	500	6	125	830	0	1,461	0.54
Jerseymac	3,004	4,481	2,499	0	0	9,984	3.67
Paulared	875	1171	802	280	0	3,128	1.15
Vista Bella	25	1136	0	0	0	1,161	0.43
Other Early Cultivars	363	443	808	173	150	1,937	0.71
Total Early Cultivars	4,767	7,237	4,234	1,283	150	17,671	6.50
Cortland	1,257	1,222	388	702	0	3,569	1.31
Golden Delicious	65	164	300	177	0	706	0.26
Golden Russet	250	147	200	67	0	664	0.24
Empire	9,546	3,211	397	107	0	13,261	4.88
Idared	7,400	16,786	5,064	3,423	0	32,673	12.02
McIntosh	48,335	40,687	23,633	18,318	75	131,048	48.21
Mutsu or Crispin	425	221	0	0	0	646	0.24
Northern Spy	8,064	6,199	5,482	6,187	240	26,172	9.63
Red Delicious	4,372	3,051	2,534	18,060	14	28,031	10.31
R.I. Greening	0	0	0	540	240	780	0.29
Spartan	3,004	3,691	3,158	4,837	200	14,890	5.48
Other Late Cultivars	192	430	0	765	320	1,707	0.63
Total Late Cultivars	82,910	75,809	41,156	53,183	1,089	254,147	93.50
Total	87,677	83,046	45,390	54,466	1,239	271,818	100.00
Age Group as % of Total	32.25	30.55	16.70	20.04	0.46	100.00	

Table 54 - Apple Trees on MM111 Rootstock by Cultivar and Age Group, Georgian Bay District, 1990 Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	8	0	0	0	0	8	0.03
Jerseymac	0	649	160	0	0	809	2.84
Paulared	1	0	0	0	0	1	0.00
Other Early Cultivars	0	0	149	100	0	249	0.88
Total Early Cultivars	9	649	309	100	0	1,067	3.75
Cortland	0	175	210	13	0	398	1.40
Golden Delicious	0	0	0	1,904	0	1,904	6.69
Golden Russet	0	106	0	0	0	106	0.37
Empire	50	49	1	0	0	100	0.35
Idared	2,265	1,744	2,621	339	0	6,969	24.49
McIntosh	4,550	2,836	2,106	1,074	0	10,566	37.13
Mutsu or Crispin	0	0	0	61	0	61	0.21
Northern Spy	0	585	363	1,916	0	2,864	10.06
Red Delicious	0	257	2,261	980	0	3,498	12.29
Spartan	50	105	1	0	0	156	0.55
Other Late Cultivars	505	0	90	175	0	770	2.71
Total Late Cultivars	7,420	5,857	7,653	6,462	0	27,392	96.25
Total	7,429	6,506	7,962	6,562	0	28,459	100.00
Age Group as % of Total	26.10	22.86	27.98	23.06	0.00	100.00	

Table 55 - Apple Trees on Other Rootstock by Cultivar and Age Group, Georgian Bay District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	0	0	0	243	0	243	0.93
Vista Bella	5	0	0	0	0	5	0.02
Other Early Cultivars	2,302	98	196	1,404	189	4,189	16.02
Total Early Cultivars	2,307	98	196	1,647	189	4,437	16.97
Cortland	0	25	0	66	15	106	0.40
Golden Delicious	0	0	0	73	0	73	0.28
Golden Russet	0	0	0	15	5	20	0.08
Empire	21	20	0	0	0	41	0.16
Idared	200	20	1,015	0	0	1,235	4.72
McIntosh	452	300	980	5,683	1,025	8,440	32.28
Mutsu or Crispin	0	0	0	0	520	520	1.99
Northern Spy	341	328	220	5,457	899	7,245	27.71
Red Delicious	0	41	0	1,995	0	2,036	7.79
Spartan	35	0	54	14	0	103	0.39
Other Late Cultivars	524	4	52	1,192	118	1,890	7.23
Total Late Cultivars	1,573	738	2,321	14,495	2,582	21,709	83.03
Total	3,880	836	2,517	16,142	2,771	26,146	100.00
Age Group as % of Total	14.84	3.20	9.62	61.74	10.60	100.00	

Table 56 - Apple Trees on M2 Rootstock by Cultivar and Age Group, Central Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	0	0	0	147	0	147	4.17
Vista Bella	0	8	0	0	0	8	0.23
Other Early Cultivars	0	70	0	0	0	70	1.98
Total Early Cultivars	0	78	0	147	0	225	6.38
Idared	0	0	700	10	0	710	20.15
McIntosh	0	0	0	1,750	0	1,750	49.66
Mutsu or Crispin	4	0	0	0	0	4	0.11
Northern Spy	15	0	350	0	80	445	12.63
Red Delicious	0	0	210	100	80	390	11.07
Total Late Cultivars	19	0	1,260	1,860	160	3,299	93.62
Total	19	78	1,260	2,007	160	3,524	100.00
Age Group as % of Total	0.54	2.21	35.76	56.95	4.54	100.00	

Table 57 - Apple Trees on M7 Rootstock by Cultivar and Age Group, Central Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Jerseymac	250	249	300	0	0	799	1.79
Paulared	0	288	0	0	0	288	0.65
Vista Bella	250	372	325	0	0	947	2.13
Other Early Cultivars	0	420	412	0	0	832	1.87
Total Early Cultivars	500	1,329	1,037	0	0	2,866	6.44
Cortland	1,530	2,143	500	557	20	4,750	10.68
Golden Delicious	2,226	2,095	1,202	1,100	25	6,648	14.95
Golden Russet	52	25	70	118	0	265	0.60
Empire	980	1,535	0	0	0	2,515	5.65
Idared	381	669	381	0	0	1,431	3.22
McIntosh	2,751	2,725	820	7,443	1,235	14,974	33.66
Mutsu or Crispin	1,022	606	0	1,034	0	2,662	5.98
Northern Spy	14	511	125	532	100	1,282	2.88
Red Delicious	675	1,110	302	2,203	1,035	5,325	11.97
Spartan	0	141	259	336	0	736	1.66
Other Late Cultivars	825	75	7	0	120	1,027	2.31
Total Late Cultivars	10,456	11,635	3,666	13,323	2,535	41,615	93.56
Total	10,956	12,964	4,703	13,323	2,535	44,481	100.00
Age Group as % of Total	24.63	29.15	10.57	29.95	5.70	100.00	

Table 58 - Apple Trees on M9 Rootstock by Cultivar and Age Group, Central Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	0	0	0	0	2	2	0.01
Jerseymac	175	0	100	0	0	275	0.95
Paulared	0	20	0	0	0	20	0.07
Vista Bella	175	35	0	0	0	210	0.72
Other Early Cultivars	1,400	0	396	300	0	2,096	7.20
Total Early Cultivars	1,750	55	496	300	2	2,603	8.95
Cortland	302	1,604	201	300	0	2,407	8.27
Golden Delicious	2	105	334	0	200	641	2.20
Golden Russet	459	25	24	604	0	1,112	3.82
Empire	159	5	0	0	0	164	0.56
Idared	600	0	6	5	0	611	2.10
McIntosh	20	130	701	8,209	300	9,360	32.17
Mutsu or Crispin	140	140	300	4	0	584	2.01
Northern Spy	0	255	541	1,900	0	2,696	9.26
Red Delicious	2	9	3,408	2,200	1,000	6,619	22.75
R.I. Greening	175	0	0	0	0	175	0.60
Spartan	0	0	1158	800	0	1,958	6.73
Other Late Cultivars	160	0	10	0	0	170	0.58
Total Late Cultivars	2,019	2,273	6,683	14,022	1,500	26,497	91.05
Total	3,769	2,328	7,179	14,322	1,502	29,100	100.00
Age Group as % of Total	12.95	8.00	24.67	49.22	5.16	100.00	

Table 59 - Apple Trees on M26 Rootstock by Cultivar and Age Group, Central Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	0	100	0	0	0	100	0.22
Jerseymac	179	627	150	0	0	956	2.08
Paulared	0	180	1188	0	0	1,368	2.97
Vista Bella	0	181	500	0	0	681	1.48
Other Early Cultivars	305	1,035	256	80	0	1,676	3.65
Total Early Cultivars	484	2,123	2,094	80	0	4,781	10.40
Cortland	447	2,407	2,026	60	0	4,940	10.75
Golden Delicious	976	322	1,733	235	0	3,266	7.10
Golden Russet	229	571	251	20	0	1,071	2.33
Empire	1,158	1,864	571	38	0	3,631	7.90
Idared	42	846	2,342	0	0	3,230	7.03
McIntosh	1,155	2,141	4,560	0	0	7,856	17.09
Mutsu or Crispin	458	730	563	22	0	1,773	3.86
Northern Spy	931	1,227	1,768	1	0	3,927	8.54
Red Delicious	1,882	1,724	3,086	1,241	0	7,933	17.26
Spartan	660	803	1,177	66	0	2,706	5.89
Other Late Cultivars	559	215	78	0	0	852	1.85
Total Late Cultivars	8,497	12,850	18,155	1,683	0	41,185	89.60
Total	8,981	14,973	20,249	1,763	0	45,966	100.00
Age Group as % of Total	19.54	32.57	44.05	3.84	0.00	100.00	

Table 60 - Apple Trees on MM106 Rootstock by Cultivar and Age Group, Central Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	40	0	180	60	0	280	1.14
Jerseymac	700	20	0	0	0	720	2.94
Paulared	610	410	400	0	0	1,420	5.80
Vista Bella	0	50	0	0	0	50	0.20
Other Early Cultivars	0	11	122	64	0	197	0.81
Total Early Cultivars	1,350	491	702	124	0	2,667	10.89
Cortland	0	71	10	0	0	81	0.33
Golden Delicious	0	520	344	492	0	1,356	5.53
Golden Russet	500	0	47	0	0	547	2.23
Empire	2,390	0	410	0	0	2,800	11.43
Idared	730	835	1,170	128	0	2,863	11.69
McIntosh	3,780	870	966	1,784	0	7,400	30.21
Mutsu or Crispin	420	240	242	119	0	1,021	4.17
Northern Spy	0	0	162	40	0	202	0.82
Red Delicious	925	900	645	2,277	0	4,747	19.38
Spartan	50	100	330	69	0	549	2.24
Other Late Cultivars	0	25	170	69	0	264	1.08
Total Late Cultivars	8,795	3,561	4,496	4,978	0	21,830	89.11
Total	10,145	4,052	5,198	5,102	0	24,497	100.00
Age Group as % of Total	41.41	16.54	21.22	20.83	0.00	100.00	

Table 61 - Apple Trees on MM111 Rootstock by Cultivar and Age Group, Central Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Paulared	0	0	10	0	0	10	0.17
Other Early Cultivars	0	0	0	12	101	113	1.88
Total Early Cultivars	0	0	10	12	101	123	2.05
Cortland	72	123	78	60	120	453	7.53
Golden Delicious	367	190	10	207	11	785	13.06
Golden Russet	0	0	15	99	0	114	1.90
Empire	168	140	0	0	0	308	5.12
Idared	0	106	0	50	0	156	2.59
McIntosh	603	75	539	159	298	1,674	27.85
Mutsu or Crispin	79	172	124	0	0	375	6.24
Northern Spy	256	125	0	40	349	770	12.81
Red Delicious	216	0	409	281	34	940	15.64
Spartan	0	0	0	0	15	15	0.25
Other Late Cultivars	70	0	225	0	3	298	4.96
Total Late Cultivars	1,831	931	1,400	896	830	5,888	97.95
Total	1,831	931	1,410	908	931	6,011	100.00
Age Group as % of Total	30.46	15.49	23.46	15.10	15.49	100.00	

Table 62 - Apple Trees on Other Rootstocks by Cultivar and Age Group, Central Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Paulared	70	0	0	0	0	70	2.47
Other Early Cultivars	0	97	7	270	42	416	14.67
Total Early Cultivars	70	97	7	270	42	486	17.14
Golden Delicious	0	0	2	0	0	2	0.07
Idared	26	0	0	30	0	56	1.98
McIntosh	340	0	4	70	54	468	16.51
Northern Spy	4	0	0	35	98	137	4.83
Red Delicious	25	0	9	1,182	72	1,288	45.43
R.I. Greening	0	0	0	0	20	20	0.71
Other Late Cultivars	80	84	17	3	194	378	13.33
Total Late Cultivars	475	84	32	1,320	438	2,349	82.86
Total	545	181	39	1,590	480	2,835	100.00
Age Group as % of Total	19.22	6.38	1.38	56.09	16.93	100.00	

Table 63 - Apple Trees on M2 Rootstock by Cultivar and Age Group, Niagara District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	17	0	15	5	0	37	0.43
Jerseymac	0	4	0	0	0	4	0.05
Vista Bella	2	8	0	120	0	130	1.51
Other Early Cultivars	0	0	0	0	26	26	0.30
Total Early Cultivars	19	12	15	125	26	197	2.29
Cortland	21	6	77	550	201	855	9.95
Golden Delicious	63	55	127	45	0	290	3.37
Golden Russet	1	0	1	82	0	84	0.98
Empire	1	5	0	75	0	81	0.94
Idared	35	6	1,110	254	0	1,405	16.35
McIntosh	17	0	0	1,581	158	1,756	20.43
Mutsu or Crispin	0	5	0	300	0	305	3.55
Northern Spy	6	8	9	941	267	1,231	14.32
Red Delicious	3	141	25	1,390	0	1,559	18.14
R.I. Greening	0	4	0	273	0	277	3.22
Spartan	7	75	0	10	0	92	1.07
Other Late Cultivars	0	0	0	450	13	463	5.39
Total Late Cultivars	154	305	1,349	5,951	639	8,398	97.71
Total	173	317	1,364	6,076	665	8,595	100.00
Age Group as % of Total	2.01	3.69	15.87	70.69	7.74	100.00	

Table 64 - Apple Trees on M7 Rootstock by Cultivar and Age Group, Niagara District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	29	0	527	1,045	0	1,601	3.37
Jerseymac	182	124	0	0	0	306	0.64
Paulared	5	120	352	90	0	567	1.20
Vista Bella	54	65	167	6	0	292	0.62
Other Early Cultivars	6	60	159	1,135	0	1,360	2.87
Total Early Cultivars	276	369	1,205	2,276	0	4,126	8.70
Cortland	827	721	476	544	90	2,658	5.60
Golden Delicious	1,048	2,770	1,451	2,147	1	7,417	15.63
Golden Russet	886	952	18	79	0	1,935	4.08
Empire	921	1,039	92	21	0	2,073	4.37
Idared	213	1,329	248	692	0	2,482	5.23
McIntosh	806	420	821	4,624	0	6,671	14.06
Mutsu or Crispin	1,301	1,136	731	220	0	3,388	7.14
Northern Spy	392	525	364	1,704	0	2,985	6.29
Red Delicious	360	1,718	1,293	6,470	30	9,871	20.81
R.I. Greening	78	90	8	27	0	203	0.43
Spartan	747	151	492	1,352	0	2,742	5.78
Other Late Cultivars	481	20	23	370	0	894	1.88
Total Late Cultivars	8,060	10,871	6,017	18,250	121	43,319	91.30
Total	8,336	11,240	7,222	20,526	121	47,445	100.00
Age Group as % of Total	17.57	23.69	15.22	43.26	0.26	100.00	

Table 65 - Apple Trees on M9 Rootstock by Cultivar and Age Group, Niagara District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	21	15	36	32	13	117	0.37
Jerseymac	355	30	10	0	0	395	1.25
Paulared	2	0	150	90	0	242	0.76
Vista Bella	40	20	0	0	0	60	0.19
Other Early Cultivars	24	55	10	70	0	159	0.50
Total Early Cultivars	442	120	206	192	13	973	3.07
Cortland	92	168	53	455	8	776	2.45
Golden Delicious	1,573	562	131	838	8	3,112	9.83
Golden Russet	502	6	3	22	1	534	1.69
Empire	1,551	399	507	386	6	2,849	8.99
Idared	695	1,235	1,478	199	18	3,625	11.45
McIntosh	3,986	206	238	927	66	5,423	17.12
Mutsu or Crispin	1,483	38	390	500	18	2,429	7.67
Northern Spy	67	403	74	246	0	790	2.49
Red Delicious	2,303	461	439	3,238	142	6,583	20.78
R.I. Greening	0	0	0	11	0	11	0.03
Spartan	311	442	242	1,400	8	2,403	7.59
Other Late Cultivars	928	12	25	1,200	0	2,165	6.84
Total Late Cultivars	13,491	3,932	3,580	9,422	275	30,700	96.93
Total	13,933	4,052	3,786	9,614	288	31,673	100.00
Age Group as % of Total	43.99	12.79	11.95	30.36	0.91	100.00	

Table 66 - Apple Trees on M26 Rootstock by Cultivar and Age Group, Niagara District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	29	724	176	0	6	935	0.49
Jerseymac	719	1,145	225	0	0	2,089	1.10
Paulared	1,370	2,487	1,160	2	0	5,019	2.63
Vista Bella	2,095	994	749	2	0	3,840	2.02
Other Early Cultivars	466	1,249	407	100	0	2,222	1.17
Total Early Cultivars	4,679	6,599	2,717	104	6	14,105	7.41
Cortland	3,121	2,755	1,947	558	1	8,382	4.40
Golden Delicious	9,924	14,517	5,530	1,077	404	31,452	16.53
Golden Russet	943	806	915	48	2	2,714	1.43
Empire	9,585	3,847	3,897	17	0	17,346	9.12
Idared	3,815	6,084	4,489	47	4	14,439	7.59
McIntosh	6,510	4,299	3,012	3,692	0	17,513	9.20
Mutsu or Crispin	9,974	7,654	6,240	196	0	24,064	12.65
Northern Spy	2,084	1,325	1,441	5,351	14	10,215	5.37
Red Delicious	11,472	9,799	11,505	4,347	34	37,157	19.53
R.I. Greening	8	2	42	100	17	169	0.09
Spartan	734	5,022	2,589	510	1	8,856	4.65
Other Late Cultivars	2,979	314	555	16	0	3,864	2.03
Total Late Cultivars	61,149	56,424	42,162	15,959	477	176,171	92.59
Total	65,828	63,023	44,879	16,063	483	190,276	100.00
Age Group as % of Total	34.60	33.12	23.59	8.44	0.25	100.00	

Table 67 - Apple Trees on MM106 Rootstock by Cultivar and Age Group, Niagara District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	10	17	80	297	0	404	0.77
Jerseymac	123	110	290	0	0	523	1.00
Paulared	250	312	16	10	0	588	1.12
Vista Bella	92	180	1	0	0	273	0.52
Other Early Cultivars	80	303	141	926	0	1,450	2.76
Total Early Cultivars	555	922	528	1,233	0	3,238	6.17
Cortland	315	535	437	236	0	1,523	2.90
Golden Delicious	571	1,266	769	3,397	0	6,003	11.43
Golden Russet	46	497	236	14	0	793	1.51
Empire	919	2,022	1,102	440	0	4,483	8.53
Idared	584	3,512	1,019	1,495	0	6,610	12.59
McIntosh	1,257	402	2,026	1,344	0	5,029	9.57
Mutsu or Crispin	1,551	1,146	895	400	0	3,992	7.60
Northern Spy	464	269	206	674	40	1,653	3.15
Red Delicious	2,216	3,140	2,404	8,257	0	16,017	30.50
R.I. Greening	50	74	29	0	0	153	0.29
Spartan	118	381	68	1,785	0	2,352	4.48
Other Late Cultivars	215	120	119	218	0	672	1.28
Total Late Cultivars	8,306	13,364	9,310	18,260	40	49,280	93.83
Total	8,861	14,286	9,838	19,493	40	52,518	100.00
Age Group as % of Total	16.87	27.20	18.73	37.12	0.08	100.00	

Table 68 - Apple Trees on MM111 Rootstock by Cultivar and Age Group, Niagara District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	0	5	0	0	0	5	0.07
Vista Bella	0	1	0	0	0	1	0.01
Other Early Cultivars	0	14	44	201	0	259	3.70
Total Early Cultivars	0	20	44	201	0	265	3.78
Cortland	2	5	20	10	0	37	0.53
Golden Delicious	52	318	5	670	0	1,045	14.92
Golden Russet	0	0	50	40	0	90	1.29
Empire	120	12	40	0	0	172	2.46
Idared	54	456	263	17	0	790	11.28
McIntosh	0	0	88	240	0	328	4.68
Mutsu or Crispin	352	101	80	0	0	533	7.61
Northern Spy	0	135	0	280	0	415	5.93
Red Delicious	2,045	381	320	339	0	3,085	44.05
Spartan	0	114	0	121	0	235	3.36
Other Late Cultivars	8	0	0	0	0	8	0.11
Total Late Cultivars	2,633	1,522	866	1,717	0	6,738	96.22
Total	2,633	1,542	910	1,918	0	7,003	100.00
Age Group as % of Total	37.60	22.02	12.99	27.39	0.00	100.00	

Table 69 - Apple Trees on Other Rootstocks by Cultivar and Age Group, Niagara District, Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	52	40	2	3	29	126	1.03
Jerseymac	0	30	0	0	0	30	0.24
Vista Bella	1	60	0	0	7	68	0.55
Other Early Cultivars	2	433	205	532	49	1,221	9.92
Total Early Cultivars	55	563	207	535	85	1,445	11.74
Cortland	1	69	11	30	4	115	0.94
Golden Delicious	752	260	536	648	0	2,196	17.85
Golden Russet	4	0	0	0	0	4	0.03
Empire	1	200	20	0	0	221	1.80
Idared	133	68	31	0	4	236	1.92
McIntosh	408	700	303	319	14	1,744	14.17
Mutsu or Crispin	79	22	73	0	0	174	1.41
Northern Spy	4	13	32	218	14	281	2.28
Red Delicious	250	440	1,020	1,145	4	2,859	23.23
Spartan	1	1	50	0	8	60	0.49
Other Late Cultivars	1,039	1,509	313	22	87	2,970	24.14
Total Late Cultivars	2,672	3,282	2,389	2,382	135	10,860	88.26
Total	2,727	3,845	2,596	2,917	220	12,305	100.00
Age Group as % of Total	22.16	31.25	21.10	23.70	1.79	100.00	

Table 70 - Apple Trees on M2 Rootstock by Cultivar and Age Group, South-Western Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	2	4	2	71	30	109	0.43
Jerseymac	0	0	0	15	0	15	0.06
Paulared	0	0	100	105	0	205	0.81
Other Early Cultivars	0	0	183	23	0	206	0.82
Total Early Cultivars	2	4	285	214	30	535	2.12
Cortland	2	6	353	66	81	508	2.01
Golden Delicious	76	150	208	567	720	1,721	6.82
Golden Russet	15	3	0	76	0	94	0.37
Empire	79	0	2	148	80	309	1.23
Idared	87	3	494	2,470	1,163	4,217	16.72
McIntosh	7	200	54	1,884	5,517	7,662	30.38
Mutsu or Crispin	90	200	0	331	154	775	3.07
Northern Spy	1	11	3	1,921	512	2,448	9.71
Red Delicious	123	105	41	2,872	3,217	6,358	25.21
R.I. Greening	0	0	0	0	29	29	0.12
Spartan	3	0	0	306	0	309	1.23
Other Late Cultivars	55	159	3	28	10	255	1.01
Total Late Cultivars	538	837	1,158	10,669	11,483	24,685	97.88
Total	540	841	1,443	10,883	11,513	25,220	100.00
Age Group as % of Total	2.14	3.34	5.72	43.15	45.65	100.00	

Table 71 - Apple Trees on M7 Rootstock by Cultivar and Age Group, South-Western Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	59	32	85	4	0	180	0.08
Jerseymac	194	280	0	24	0	498	0.23
Paulared	471	473	710	542	0	2,196	1.00
Vista Bella	245	440	20	100	0	805	0.36
Other Early Cultivars	599	343	721	895	0	2,558	1.16
Total Early Cultivars	1,568	1,568	1,536	1,565	0	6,237	2.83
Cortland	277	350	371	1,291	3	2,292	1.04
Golden Delicious	2,115	3,898	1,761	3,042	171	10,987	4.98
Golden Russet	342	192	531	227	10	1,302	0.59
Empire	25,161	13,116	2,764	1,254	0	42,295	19.17
Idared	1,158	16,420	3,969	7,809	388	29,744	13.48
McIntosh	7,359	11,913	6,762	18,113	1,048	45,195	20.49
Mutsu or Crispin	4,398	4,356	2,266	3,499	0	14,519	6.58
Northern Spy	2,965	1,661	544	4,303	1,283	10,756	4.88
Red Delicious	18,585	6,744	7,877	12,841	926	46,973	21.29
R.I. Greening	25	71	0	100	0	196	0.09
Spartan	468	240	2,600	1,883	0	5,191	2.35
Other Late Cultivars	2,280	2,020	234	366	4	4,904	2.23
Total Late Cultivars	65,133	60,981	29,679	54,728	3,833	214,354	97.17
Total	66,701	62,549	31,215	56,293	3,833	220,591	100.00
Age Group as % of Total	30.24	28.35	14.15	25.52	1.74	100.00	

Table 72 - Apple Trees on M9 Rootstock by Cultivar and Age Group, South-Western Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	89	108	213	0	0	410	0.13
Jerseymac	607	0	15	0	0	622	0.20
Paulared	693	738	3	0	0	1,434	0.45
Vista Bella	653	153	40	0	0	846	0.27
Other Early Cultivars	300	60	93	95	0	548	0.17
Total Early Cultivars	2,342	1,059	364	95	0	3,860	1.22
Cortland	1,616	1,571	137	3	7	3,334	1.05
Golden Delicious	12,791	6,665	1,203	468	0	21,127	6.65
Golden Russet	2,612	20	116	1	4	2,753	0.87
Empire	32,212	10,731	6,583	0	0	49,526	15.60
Idared	9,573	15,111	6,028	0	0	30,712	9.67
McIntosh	37,695	20,327	11,065	5,501	2,032	76,620	24.14
Mutsu or Crispin	17,342	3,008	190	0	0	20,540	6.47
Northern Spy	3,583	1,935	8,027	964	557	15,066	4.75
Red Delicious	24,340	12,870	16,599	8,989	1,914	64,712	20.39
R.I. Greening	0	0	1	0	0	1	0.00
Spartan	1,924	2,684	1,571	0	0	6,179	1.95
Other Late Cultivars	22,198	789	0	0	0	22,987	7.24
Total Late Cultivars	165,886	75,711	51,520	15,926	4,514	313,557	98.78
Total	168,228	76,770	51,884	16,021	4,514	317,417	100.00
Age Group as % of Total	53.00	24.19	16.34	5.05	1.42	100.00	

Table 73 - Apple Trees on M26 Rootstock by Cultivar and Age Group, South-Western Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	892	903	373	0	8	2,176	0.37
Jerseymac	4079	1440	1116	404	0	7,039	1.20
Paulared	2545	4489	3102	268	0	10,404	1.77
Vista Bella	1400	3249	2167	1484	0	8,300	1.41
Other Early Cultivars	1,467	1,039	1,791	86	6	4,389	0.75
Total Early Cultivars	10,383	11,120	8,549	2,242	14	32,308	5.50
Cortland	7,760	3,839	3,871	98	40	15,608	2.65
Golden Delicious	27,162	26,241	11,236	629	1	65,269	11.10
Golden Russet	1,553	818	1,367	6	201	3,945	0.67
Empire	54,606	29,052	20,243	2,172	4	106,077	18.05
Idared	17,193	19,928	18,122	393	6	55,642	9.47
McIntosh	44,103	30,529	26,356	2,824	4	103,816	17.66
Mutsu or Crispin	19,929	12,022	12,778	887	0	45,616	7.76
Northern Spy	4,568	9,794	5,123	867	221	20,573	3.50
Red Delicious	40,579	31,688	39,539	2,339	46	114,191	19.43
R.I. Greening	5	109	0	52	0	166	0.03
Spartan	1,133	2,640	9,762	937	0	14,472	2.46
Other Late Cultivars	4,750	2,718	1,590	1,029	5	10,092	1.72
Total Late Cultivars	223,341	169,378	149,987	12,233	528	555,467	94.50
Total	233,724	180,498	158,536	14,475	542	587,775	100.00
Age Group as % of Total	39.77	30.71	26.97	2.46	0.09	100.00	

Table 74 - Apple Trees on MM106 Rootstock by Cultivar and Age Group, South-Western Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	1,707	147	103	231	117	2,305	0.46
Jerseymac	326	791	897	538	0	2,552	0.51
Paulared	576	939	2,520	933	0	4,968	0.99
Vista Bella	466	296	795	365	0	1,922	0.38
Other Early Cultivars	182	281	1,259	2,123	54	3,899	0.77
Total Early Cultivars	3,257	2,454	5,574	4,190	171	15,646	3.11
Cortland	3,376	396	215	480	0	4,467	0.89
Golden Delicious	2,880	6,786	2,942	2,771	128	15,507	3.09
Golden Russet	864	533	267	282	0	1,946	0.39
Empire	32,910	21,034	13,663	1,358	0	68,965	13.73
Idared	12,639	40,671	21,290	3,939	0	78,539	15.63
McIntosh	31,783	58,636	33,558	15,300	396	139,673	27.80
Mutsu or Crispin	6,763	4,923	1,880	1,156	0	14,722	2.93
Northern Spy	1,049	954	3,958	9,847	69	15,877	3.16
Red Delicious	34,272	38,457	24,235	21,806	90	118,860	23.65
R.I. Greening	0	227	0	0	0	227	0.04
Spartan	791	3,807	3,694	1,625	0	9,917	1.97
Other Late Cultivars	8,428	6,781	1,453	1,460	0	18,122	3.61
Total Late Cultivars	135,755	183,205	107,155	60,024	683	486,822	96.89
Total	139,012	185,659	112,729	64,214	854	502,468	100.00
Age Group as % of Total	27.67	36.95	22.43	12.78	0.17	100.00	

Table 75 - Apple Trees on MM111 Rootstock by Cultivar and Age Group, South-Western Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	10	55	17	1	0	83	0.10
Jerseymac	0	149	0	135	0	284	0.33
Paulared	284	350	307	367	0	1,308	1.52
Vista Bella	0	140	88	24	0	252	0.29
Other Early Cultivars	52	110	57	193	3	415	0.48
Total Early Cultivars	346	804	469	720	3	2,342	2.72
Cortland	53	570	13	20	3	659	0.77
Golden Delicious	4,445	4,925	1,568	1,501	0	12,439	14.44
Golden Russet	226	120	59	166	3	574	0.67
Empire	5,188	4,268	1,801	467	0	11,724	13.61
Idared	1,532	3,568	1,219	4,203	0	10,522	12.21
McIntosh	1,740	5,424	605	2,690	432	10,891	12.64
Mutsu or Crispin	192	558	978	0	0	1,728	2.01
Northern Spy	362	314	15	661	27	1,379	1.60
Red Delicious	8,400	10,892	3,573	7,667	84	30,616	35.54
R.I. Greening	0	0	0	4	0	4	0.00
Spartan	2	25	1,436	422	0	1,885	2.19
Other Late Cultivars	474	793	109	0	3	1,379	1.60
Total Late Cultivars	22,614	31,457	11,376	17,801	552	83,800	97.28
Total	22,960	32,261	11,845	18,521	555	86,142	100.00
Age Group as % of Total	26.65	37.45	13.75	21.50	0.65	100.00	

Table 76 - Apple Trees on Other Rootstocks by Cultivar and Age Group, South-Western Ontario, 1990

Cultivar	1 to 5 Years	6 to 10 Years	11 to 16 Years	17 to 30 Years	31 Years & Over	Total	Cultivar as % of Total
Early McIntosh	6	1	1	24	6	38	0.10
Paulared	0	0	195	0	0	195	0.54
Vista Bella	0	0	74	79	16	169	0.47
Other Early Cultivars	200	179	592	687	136	1,794	4.97
Total Early Cultivars	206	180	862	790	158	2,196	6.08
Cortland	303	19	2	30	15	369	1.02
Golden Delicious	129	87	433	1,456	58	2,163	5.99
Golden Russet	10	0	0	10	2	22	0.06
Empire	53	90	2,175	16	0	2,334	6.46
Idared	2	0	24	309	0	335	0.93
McIntosh	1,704	210	7,333	456	966	10,669	29.55
Mutsu or Crispin	0	110	744	30	0	884	2.45
Northern Spy	838	144	0	13	502	1,497	4.15
Red Delicious	359	822	7,444	4,097	220	12,942	35.84
Spartan	6	0	0	4	0	10	0.03
Other Late Cultivars	1,306	567	335	93	385	2,686	7.44
Total Late Cultivars	4,710	2,049	18,490	6,514	2,148	33,911	93.92
Total	4,916	2,229	19,352	7,304	2,306	36,107	100.00
Age Group as % of Total	13.61	6.17	53.60	20.23	6.39	100.00	